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James Martinell
Primary Examiner 1631

Marthnell, J.
09/18/99
Page 1
Seg ID 15
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OM nucleic - protein search, using frame_plus_n2p model

Run on: December 12, 2003, 18:26:31 / Search time 18.5 Seconds

(without alignments)
6390.083 Million cell updates/sec

Title: US-09-989-919-15

Perfect score: 2527

Sequence: 1 ggtctgcacgtctacgcga.....aaaaaaaaaagcggtc 1397

Scoring table: BLOSUM62

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Ygapop 10.0	Ygapext 0.5
Fgapop 6.0	Fgapext 7.0
Delpop 6.0	Delpext 7.0

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 657434

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-DB=Issued Patents AA -QFMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.cdi
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-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
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-NO_MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPELLOC=100 -LONELC
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -XGAPOP=10 -XGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database: Issued Patents AA.*

1: /cgn2_6/prodata/1/iaa/5A.COMB.pep.*
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3: /cgn2_6/prodata/1/iaa/6A.COMB.pep.*
4: /cgn2_6/prodata/1/iaa/6B.COMB.pep.*
5: /cgn2_6/prodata/1/iaa/PCUTUS.COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfill1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	132	5.2	743	US-09-252-991A-28327	Sequence 28327, A
2	126.5	4.9	239	US-09-252-991A-17588	Sequence 17588, A
3	124	4.8	1239	US-08-026-1385-3	Sequence 3, Appl1
4	120	4.7	439	US-09-252-991A-20570	Sequence 20570, A
5	120	4.7	1964	US-09-467-997-1	Sequence 1, Appl1
6	119	4.6	1063	US-08-093-453B-3	Sequence 3, Appl1
7	118	4.6	897	US-07-960-389-2	Sequence 2, Appl1
8	117	4.6	1184	US-09-266-225D-18	Sequence 18, Appl1
9	117	4.6	1185	US-09-041-886-23	Sequence 23, Appl1
10	116	4.5	433	US-09-046-158A-2	Sequence 2, Appl1
11	115	4.5	907	US-08-783-774-2	Sequence 1, Appl1
12	115	4.5	907	US-09-328-599A-1	Sequence 1, Appl1

C 13	115	4.5	907	5	PCT-US95-04611A-19	Sequence 19, Appl1
C 14	115	4.5	1063	1	US-08-127-499A-8	Sequence 8, Appl1
C 15	115	4.5	1063	1	US-08-482-847-8	Sequence 8, Appl1
C 16	114	4.5	593	4	US-09-252-991A-20441	Sequence 20441, A
C 17	113	4.4	472	4	US-09-252-991A-31978	Sequence 31978, A
C 18	112.5	4.4	376	4	US-08-874-562B-20	Sequence 20, Appl1
C 19	112.5	4.4	697	4	US-09-955-518-20	Sequence 20, Appl1
C 20	112	4.4	697	4	US-09-252-991A-24009	Sequence 24009, A
C 21	112	4.4	992	1	US-08-127-499A-1	Sequence 1, Appl1
C 22	112	4.4	992	1	US-08-482-847-1	Sequence 1, Appl1
C 23	111	4.4	414	4	US-09-252-991A-24714	Sequence 24714, A
C 24	110	4.4	520	4	US-09-252-991A-27089	Sequence 27089, A
C 25	109.5	4.3	525	4	US-09-252-991A-23981	Sequence 23981, A
C 26	109.5	4.3	1298	2	US-08-690-473-2	Sequence 2, Appl1
C 27	109.5	4.3	1298	3	US-09-259-991A-2	Sequence 2, Appl1
C 28	109.5	4.3	1298	3	US-08-843-655-2	Sequence 2, Appl1
C 29	109	4.3	1130	4	US-09-442-100-4	Sequence 4, Appl1
C 30	109	4.3	1130	4	US-09-233-857-3	Sequence 3, Appl1
C 31	109	4.3	1130	4	US-08-939-106-4	Sequence 4, Appl1
C 32	108	4.2	442	4	US-09-252-991A-23285	Sequence 23285, A
C 33	107	4.2	330	4	US-09-252-991A-26360	Sequence 26360, A
C 34	107	4.2	486	4	US-09-252-991A-20637	Sequence 20637, A
C 35	106.5	4.2	178	4	US-09-252-991A-31386	Sequence 31386, A
C 36	106.5	4.2	188	4	US-09-252-991A-28878	Sequence 28878, A
C 37	106.5	4.2	504	4	US-09-252-991A-28242	Sequence 28242, A
C 38	106	4.1	395	4	US-09-252-991A-31694	Sequence 31694, A
C 39	106	4.1	878	4	US-09-556-706B-2	Sequence 2, Appl1
C 40	105.5	4.1	323	4	US-09-252-991A-23885	Sequence 23885, A
C 41	105	4.2	313	4	US-09-252-991A-27480	Sequence 27480, A
C 42	105	4.1	557	3	US-08-927-215-139	Sequence 139, Appl1
C 43	105	4.1	595	4	US-09-252-991A-18995	Sequence 18995, A
C 44	105	4.1	962	4	US-09-442-100-6	Sequence 6, Appl1
C 45	105	4.1	962	4	US-08-939-106-6	Sequence 6, Appl1

ALIGNMENTS

RESULT 1
US-09-252-991A-28327
Sequence 28327, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28327
LENGTH: 743
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28327

Alignment Scores:

Pred. No.: 8.86e-05
Score: 132.00
Percent Similarity: 34.31%
Best Local Similarity: 25.73%
Query Match: 5.22%
DB: 4
Gaps: 21

US-09-989-919-15 (1-1397) x US-09-252-991A-28327 (1-743)

QY 12 TGTACCGAGCGGCGAGTCTTGCAGACTCCACGCGACGACGACTACCGAGTACCACT 71
DB 355 CysleuAlaProGlyAlaIaIaGAlaIaIaGInProAspleuArgIyAlaIaAspArgThrGly 374

QY	72	GTATCCAGACGACCAATCCCCAGAGAACTACCGCTGGCCATCTACACCAACG	131
Db	375	AlaGlyAlaValAlaGlyAlaAlaArgTrpThrAlaAlaArgIy-----	389
QY	132	GGAGCTGCCTCTTTCAGTGTTCACACCTGGCTGAGCGCTGGAATGCTGTGAGACCATG	191
Db	390	-----ArgArgProArgSerArgProAlaIeu	398
QY	192	CCCAAGTGGGCGCTTGTGTGTCACCAACAGACCACTGGACAGGTG--AGCCAGTGG	248
Db	399	ProGly---GlyPro-----ArgProAlaGlyGlnProAspAlaArgPro	412
QY	249	GAGAAAGCCCTTC-----CAAGGAGATGGCAGAGAC	278
Db	413	AspArgProAlaProArgAlaProValProAlaAlaGlyProArgGlyArgGlyArgAla	432
QY	279	CTC---TTTGAGAGTGTGATAGATAGTATCCCCATCGAAGTACAGAGGGGCTCTAGG	335
Db	433	LeuValSerAlaGlyAlaGlyAlaGlyThrGlyIleuSerArgSerLeuGlyAlaIleuArg	452
QY	336	TGATGAGAGAGATACGTGTCTTCAGGCGAGTCMAATTAGAGAGATGTCTTGCT	395
Db	453	LeuProGlyThrGlyIleuAlaGlyIleuArgAlaGlyArgProGlyArgGlyValGlnPro	472
QY	396	CCA-----GAAAGAGAAACATCCAGCCCTGTACTCTCACTCTGGCCCCCA	443
Db	473	ProAlaGlyArgTrpThrAlaAspAlaAlaIlePro-----CysPro--	486
QY	444	GATCGGACAGCTGTCTTTTTCACAGCTGGATGAGACCAAGTGTCCTGATCCCAACAG	503
Db	487	---ArgSerAlaValSerArgArgAlaAlaAlaGlyIleuAlaArgProAspProAlaAla	505
QY	504	ACCACATATGTGAAAGCCTCTGGCTGACCTATCTGAGGGCTCGGCTGACCAAGTCACTAT	563
Db	506	GlyThrAlaGlyAlaGlyAlaGlyIleuArgProAlaAlaGly-----ProArgIleu	522
QY	564	CCTCAGCAGCTGGGCTTGCTGTGAGGAGAGTCACTGGCAGACCTGCATGTCTAC	623
Db	523	ProAlaGlyThrGlyAlaProValAlaAlaIleuArg---ThrGlyAlaGlySerAlaGly	541
QY	624	CTGGGACCCCTGGCAGACAAAGCTAACATCCACAGACAGATGTGACCGACCAACG	683
Db	542	ArgAla-ProIleGlyThrGlyArgThrLeuGln-----ArgArgGlySerArgAlaArg	559
QY	684	TGCATTAATGCCAAATGTTAAATGTGAGTTTACAGGCTGACTATGGAGCTGTGCTC	743
Db	559	Gser-----AlaAlaAlaArgAl	565
QY	744	CTAGTCCAGAAATCATGGGGGATATACCTGCTTCCAACTGTGGGCTGTAGCAAGCT	803
Db	565	AlaAlaArgIleSerArgGlyAlaGlyAlaAlaAspAlaAlaIleuArgSerAlaIleGlyTy	585
QY	804	CAGGCTAGCTCTCCCACTGGGGGCTGTGACCCCTCTCCCTGGAGCGGTTGCTGAGGACGCC	863
Db	585	ArgArgArgAl-----ProValProIleuArgThrIleAlaPro-glyProAla	601
QY	864	ATCAGTGTCTTCATAGTGTGAGATGTAGCTTAAAGCCCTGCTGCTCTGCTGCACATG	923
Db	601	AspProAlaGlnArgProGlyAlaGlyAlaAlaArgProAlaThrAlaAlaIleA---A	620
QY	924	CCACAGCAGGC-----GGTGGGGGCTGCTGGGGGACAA	956
Db	620	IaThrAlaGlySerProAlaAlaThrValArgArgProAlaGlyIleuArgArgGlyIy	640
QY	957	TCCATCTGTGAGATGTTCTCTCACTTAAGTCTGACAGAGACCTTGGGGGGAAATGCTCC	1016
Db	640	IaGlnSerAlaGlnIleuSerGlyAlaGlyAlaArgProAspArgProGlyIleuLeuG	660
QY	1017	AGGATGTGGTGATTTCTGACTTGGGGAG-----GCTATCTCTGACCTCCCGACA---G	1067
Db	660	Ile-----ProGlyAspArgArgAlaThrValIleSerProAlaIleG	674
QY	1068	GGGACATCTCCAGCGCAGCCAGCGGCGTCAAGGGCGACAGGTGACACTTCAGCATGACCA	1127

[illegible]

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Db      81  ProArgProLysSerSerThrAlaArgProArgArgProArgArgLys----- 96
QY      819  TGGGGAGACTAGCTGAGTGTGCTTACAGCCCAAGGGTGGAGAGGACATCATCCCC 760
Db      97  -----ProAlaArgAlaLeuAla-----SerGlyTyrArgProSerProAlaPro 111
QY      759  ATGATTCTCGACTAGGAGCCAGCCAGCTCCCATAGGCTGGTAAACTCATCATTTTAA 700
Db      112  AlaThrProSerThrAlaArgProSerAlaCysSerAlaArgProSerAlaArgAlaArg 131
QY      699  ATTGGCATTTATGACAGCTTGTGCTGTCATCTGTCTGTCTGGAGTGTGCTTGT 640
Db      132  ThrValProTyrCys-----ArgSerSerSerSerThrCys-SerThrArg 146
QY      639  CTGCAGAGGCTTCCAGAGTACATGATGATGCTGCTGAGTGAACCTCCCTCCACAGGA 580
Db      146  gSerProGlyArgLysSerThrArgSerSerAlaSerThrSerGlyAla-----Ar 163
QY      579  AGCCAGCTGCTGAGTACATGATGCTG-----TGAGCCAGCCCTCAGATAGTACAG 526
Db      163  gAlaAerCysArgArg-----ProThrTyrArgSerSerSerThrAlaProArgAlaPr 182
QY      525  CAGAGCCCTTACATATGTGTCTTGTGGAGTACAGGACCACTTGACTCATCCAGTCT 466
Db      182  o-----ThyProSer----- 185
QY      465  TGAATAAGACACAGCTGCCAGCTGGGGGGAGAGTGAAGTAAACAGGCTGATGTTT 406
Db      186  -----ThrTyrAlaArgSerSerArgSerAlaSerAlaGlySerG 199
QY      405  CTCCTTC-----TGAGGAGAGACCATTCCTCCCTAATTGACTGCT 364
Db      199  yAlaTyrPmeCysAlaGlyThrAsnTyr-ProArgSerThrArgCysArgAlaThrArg 218
QY      363  TGAAGACAGTATATCTCTCTCATCACTCACTGACACCCCTGACTTCCGATGGGGGA 304
Db      219  --LysSerArgArgSerCysSerAsn-SerCysAlaProPro---ThrArgProAlaGly 236
QY      303  TCACATCTATCAACCTCCAGAGAGTCTCCCATCTCC-----CTTGAAGGGCTTCT 250
Db      237  CysProAlaSerGlySerThrArgTyrProGlyCysSerProThrAlaAsnSerAlaSer 256
QY      249  CCCAGTGGCTCACCTGTCAGAGTGTGTGTTGGTGTGACACAAGGCCCA----- 199
Db      257  ProThrArgArgProProArgArgCysTyrLysArgSerArgArgAlaThrProArgPro 276
QY      198  CACTGGGATGCTCTTCACAGACATCCACAGCTCAGCCAGGTTGAACACTGAAGG 142
Db      277  GlySerAlaTyrProSerCysSerThrThrLeuProThrArgAlaThrTyrLysArg 295

RESULT 3
US-08-026-138E-3
; Sequence 3, Application US/08026138E
; Patent No. 5502166
; GENERAL INFORMATION:
; APPLICANT: Masayoshi MISHINA
; TITLE OR INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nishiohata Residence 1-107
; STREET: 5214, Nishiohata-machi
; CITY: Niigata-shi
; STATE: Niigata-ken
; COUNTRY: JAPAN
; ZIP: 951
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS v.5
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/026,138E
; FILING DATE: 26-FEB-1993

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 39563/1992
; FILING DATE: 26-FEB-1992
; APPLICATION NUMBER: JP 173155/1992
; FILING DATE: 30-JUN-1992
; APPLICATION NUMBER: JP 215017/1992
; FILING DATE: 12-AUG-1992
; APPLICATION NUMBER: JP 303878/1992
; FILING DATE: 13-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Hamburg, C.Bruce
; REGISTRATION NUMBER: 22,389
; REFERENCE/DOCKET NUMBER: F-4551
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 986-2340
; TELEFAX: (212) 953-7733
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1239 amino acids
; TYPE: amino acid
; STRANDEDNESS: single strand
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: mouse
; TISSUE TYPE: brain
; PUBLICATION INFORMATION:
; AUTHORS: Masayoshi MISHINA
; TITLE: NOVEL PROTEINS AND GENES CODING THE SAME
; RELEVANT RESIDUES IN SEQ ID NO: 3: FROM 1 to 1239
;
US-08-026-138E-3

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Alignment Scores:
Pred. No.: 0.000736 Length: 1239
Score: 124.00 Matches: 94
Percent Similarity: 30.63% Conservative: 23
Best Local Similarity: 24.61% Mismatches: 112
Query Match: 4.84% Indels: 153
DB: 1 Gaps: 24

US-09-989-919-15 (1-1397) x US-08-026-138E-3 (1-1239)
QY      1196  AAAAAAGCCCCGCCCCCAAGCTGCTGCTCAAAACACACCTGCTCCCTGA 1137
Db      927  ArgArgAlaProAlaPro-----ThrThrSerGlyPro----- 937
QY      1136  CCCAGTCTGGCTATGCTAGGTGTGACCTTGCCTTACCCTGAG----- 1086
Db      938  -----ArgSerCysThrProGlyPro-----ProGlyInProSer 949
QY      1085  ---CTGGCTGGAGATGCCCTGTCGGAGGTCAAGATACCTCCCAAGTACAGAT 1029
Db      950  ProSerGlyTyrArgProPro-----GlyGlyGlyArg---ThrProLeuAlaArgArg 966
QY      1028  CACCAACATCTGAGACATCCCGCCGCAAGTCTGCTGTCAGACCTAAGCTGAGAGA 969
Db      967  AlaProGlnProProAlaArgPro-----GlyProAlaGln----- 978
QY      968  CTCACGATGATTTGCCACAGCAGACCCCAAGCCCTGCTGTGACATGTCAGAGCAG 909
Db      979  -----GlyArgLysSerProThrCysProGlyHis----- 988
QY      908  CAGCAGGGGCTTACATATCTCACACTATTTGAACACAGTATGGGCTGCCACGGA 849
Db      989  -----ProAlaGlyThrLeuGlyMetArgGlyGlyGlnCysGlnSer 1002
QY      848  ACCGTCACAGGAGGAGGACAGCCCAAGTGGAGAGACTAGCCTG-----AGCTTG 798
Db      1003  GlyTLeuArgAspArgThrSerArgProProGlyuArgAlaLeuProGlyuArgSerLeu 1022
QY      797  CTACAGCCAC-----AGGTTGGAGAGGACGATC 768
Db      1023  LeuHisAlaHisCysHisTyrTyrSerSerPheProArgAlaArgSerGlyArgProPhe 1042

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QY 767 ATACCCCATGATTCCTGAGACTAGAGCCAGCA-----GTCCCATAGTAGGC 720
Db 1043 LeuPro-----LeuPheProGluProGluProAspAspLeuLeuGly 1059
QY 719 TGGTAAACTCATTATTTAACTTTGCGATTATTCACGTTTCTCTGTCACATCTGTCT 660
Db 1060 ---ProGluGlnLeuAlaArgAlaLeuLeuArgAlaAlaLeuPro----- 1075
QY 659 GTCTGGAGTCTTATGCTTTGTCTGAGGGTCCAGG---TGACATGAGTGTGCGCAGT 603
Db 1076 -----ArgGly-ProArgProArgHisAlaLeuLeuProse 1087
QY 602 GCAAGTC-----ACTCCCTTCACAGGCAAGCCAGC---TGCTGAGATATGTC 558
Db 1087 rServalAlaGluAlaPheThrArgSerAsnProLeuProAlaArgCysThrGlyHisAl 1107
QY 557 AGCTGTGACCCGAGCCCTCAGATAGGTGACGACGAGGCTTCACATATGTGCTTTGT 498
Db 1107 acyAlaCysProCysProGln----- 1114
QY 497 GGGATCAGGACCACTTGGCTCCATCCATCTTGAAAAAGACAGCTGCCGA----- 446
Db 1115 -----SerArgProSerCysArgHisValAl 1123
QY 445 -----CTGGGGGGGAGAGGTGAGAGTAAAGAGGCTGAGT 408
Db 1123 agInThrGlnSerLeuArgLeuProSerTyrArgGluAlaCysValGluGlyValProAl 1143
QY 407 TTCTCTTTCTGAGGAGCAACATCTCTCTAAATTGACTGCTTGAAGACAGTATACC 348
Db 1143 aglyValAlaAla-----ThrTrpGlnPr 1151
QY 347 TCTCTCTCAT-----CACCTCAGACACCCCTGACTTCGATGGGGATCTACTAT 297
Db 1151 oArgGlnHisValCysLeuHisThrHisThrHisLeuProPheCysTrpGlyThrValC 1171
QY 296 CTAACAACCTCCAGAGAGTCTGACATCTCCCTTGAGAGGGCTTCTCCACATGGCTAC 237
Db 1171 sArgHisProProProCysSerSerHisSerProTrp----- 1183
QY 236 CTGTCCAGGTGTCTGTGTTGT-----GACCACMAAGCCCGACACTGG 192
Db 1184 -----LeuIleGlyThrTrpGluProProSerHisArgGlyArgThrLeuG 1199
QY 191 CARG 188
Db 1199 yLeu 1200

RESULT 4
US-09-252-991A-20570
; Sequence 20570, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20570
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; NAME/KEY: UNSURE
; LOCATION: (250)
; OTHER INFORMATION: Identity of amino acid at the above locations are unknown.

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US-09-252-991A-20570
Alignment Scores:
Pred. No.: 0.0012 Length: 439
Score: 120.00 Matches: 107
Percent Similarity: 29.48% Conservative: 23
Best Local Similarity: 24.26% Mismatches: 146
Query Match: 4.75% Indels: 165
DB: 4 Gaps: 25

US-09-989-919-15 (1-1397) x US-09-252-991A-20570 (1-439)
QY 16 CCGAGCGGGCAGTATCTGACAGACTCCAGCGCAAGCAGACTACCGACTACAGTAT 75
Db 77 ProHisArgProAspAlaIleGlnLeuHisArgAlaHisArgGlnArgSerAlaLeu 96
QY 76 CCCAGA-----CAGACCATATCCCGAGAAAGACTACCGCTGCGCATCTCAACA 126
Db 97 ProArgGlyAspProArgGlnHisProPro-----ArgLeuGlyAlaAspLeuPro 113
QY 127 CCACGGAGCTGCTCTCTTCACTGTTCACTGGCTGAGGCTGTGATGTCTGTAGAG 186
Db 114 -----ThrLeuProThrProGlyLeuArgPro----- 122
QY 187 CCATGCCAGTGTGCGGCTTTGTGATCAACAACAGACCACTGAGACGTCAGCT 246
Db 123 -----GlyArgAlaArgHisArgProGlyArg-HisGlyGlyValAspAl 137
QY 247 GGGAGAGCCCTTCCAGAGGAGATGAGCAGACCTCTCTGAGAGTTGATATGATATCC 306
Db 137 aaIaGlnHis-----ProArgAspAlaArgGlyAlaLeuTrpArgAlaAspAsp 153
QY 307 CCCATCGAAGTCAAGAGGGGTGTCTAG-----GTGATGAGAGAGGTATAC 354
Db 154 -----ArgArgGlyAlaGlnHisProGlnArgThrProArgArgSerHis 169
QY 355 GTGTCTTCAAGCAGCTCAATTAGGAGAAATGCTTGTGCTCCAGAAAGAGA-----AA 408
Db 169 sArgLeuHisAlaIleThrArgArgSerGlnGlyAlaAspHisArgLeuArgIleProArg 189
QY 409 CATCCAGCCCTGTACTCTCACCTCTGCCCCCAGGTGCGGAGCTGTCTTTTCACAA 468
Db 189 gGlyAspProCysArgHisArgTyrAlaArgProProAlaAlaGlyValArgArgGlnArg 209
QY 469 C-----TGAGTGGAGCCAAAGTGTCTCTGATCCCAACAAGACCAATATGTGAAG 519
Db 209 gProArgValAlaTrpArgArgProProGly----- 218
QY 520 CCTGTGCTGACCTATCTG-----AGGCTGCGCTGACCAAGCTGACTATC 564
Db 219 ---TrpArgThrGlyLeuArgGlyValAlaAlaArgArgGlyArgProAlaValArgLeuG 237
QY 565 CTCAGAGCTGGGCTTGGCTCTGTGAGAGG---AGTACTTGACATGGCAGCATGCTATGC 621
Db 237 yMetAlaProGlyArgValAlaGlyAspLeuAlaGlu**HisLeuGlyHisHisArgG 257
QY 622 ACCT-----GGGAGCCCTGACAGCAAAAGCTAAACATCCACAGACAGACA 666
Db 257 nProGlnGlyArgGlyLeuProSerProArgArgLeuProGluValArgAlaGlyGlnProAs 277
QY 667 TGTGACCAAGACAAAGCTGCAATTAATGCCAAATGTTAAATGTGATTTACAGACTAGC 726
Db 277 p-----AspLeuVal 280
QY 727 TATGGACTGTGCTGCTCTTATGCCAGGAATCATGGGGGTATATGACTCTCTCAACCTCG 786
Db 280 HisGly-----ProAlaProGlyVal-----ProLeuAspProAl 292
QY 787 TGGGCTGTAAAGCAAG-----TCAGGCTATGCTCC 816
Db 292 aaAspValProLeuGlnArgLeuValLeuSerValAspGlyAspArgAlaGlyArgArgPr 312
QY 817 CCATGCGGGGCTGTGCTCTCTGCGGAGCGTTCCGTGGGAGCCCATCATCTGTGTTC 876

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Db      312 oarg-----LeuProAlaAlaGlyArgSerAlaLysGlyProHis----- 325
QY      877 ATAGTGTGAGAAATGAGTAAAGCCCTGCTGCTGCTGCA----- 919
Db      326 -----ProAsrProArgAlaProGlyGlnProProValAlaArgAlaHisArgAl 342
QY      920 -----CATGCCACAGAGGC-----GGTGGGGCTG 945
Db      342 aglnArgProAsrGlnHisValAlaArgPheGlyGlnGlyArgHisArgProProGlyAlaCy 362
QY      946 CGTGGGACATCATCATCTGAGAGTGTCTGACSTTAGCTGACAGAGACATGGCG 1005
Db      362 shisGlyArgArgArgAla-----ThrglyGlnGlyAsrArg 376
QY      1006 GGGG----- 1009
Db      376 gglyGlyArgArgGlyHisProArgHisProCysLeuArgProHisArgGlyLeuArgPr 396
QY      1010 -----ATGCTCCAGATGTGGT----- 1027
Db      396 oglyHisGlyLeuArgLeuAlaArgArgValGlyArgProAlaAlaGlyAlaThrArgAr 416
QY      1028 -GATTGTGA--CTGGGAGAGCTATCTCTGACCTCCGACAGGAGACATCCAGGCG 1083
Db      416 gaArgGlnValAlaProGlyArgAlaLeuProAsrProAsrArgGlyAsrGlyArgPr 436
QY      1084 A 1084
Db      436 o 436

RESULT 5
US-09-467-997-1
; Sequence 1, Application US/09467997
; Patent No. 6379925
; GENERAL INFORMATION:
; APPLICANT: Kiteajewski, Jan
; APPLICANT: Uytendaele, Hendrik
; TITLE OF INVENTION: ANGIOGENIC MODULATION BY NOTCH SIGNAL TRANSDUCTION
; FILE REFERENCE: 53863-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/467,997
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1964
; TYPE: PRT
; ORGANISM: mouse
US-09-467-997-1

Alignment Scores:
Pred. No.: 0.00232 Length: 1964
Score: 120.00 Matches: 128
Percent Similarity: 28.72% Conservative: 38
Best Local Similarity: 22.15% Mismatches: 193
Query Match: 4.75% Indels: 220
DB: 4 Gaps: 36

US-09-989-919-15 (1-1397) x US-09-467-997-1 (1-1964)
QY      6 TGCACCTGTACCGAGCGGAGCAGTATCTGCAGAAATCCACAG-----CAAGACAGAGTA 59
Db      903 CysIleAsrThrIleSerSerIyrPheCysArgCysProGlyPheGlnGlyLysLeu 922
QY      60 CCGAGTACACAGTATCTCCAGACAGACCATCCCCAG----- 97
Db      923 CysGlnAsrPheValAsnProCysGlnProAsnProCysHisHisGlySerThrCysVal 942
QY      98 -----GAAGACTAC-----CGTGTGGCCATCTTACCAACAGGAGACTGCTTC 142
Db      943 ProGlnProSerGlyArgValCysGlnCysAlaProGlyArgGlyGlnAsnCys--- 961
QY      143 CTTTCAGTGTTCACACTGAGCTGAGCTGTGATGTCTGTAGAGCCATGCCAGTGTGCG 202

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Db      962 -----SerLysValLeuAsrAlaCysGlnSerGln---ProCysHis 974
QY      203 GCGTTGTGTGACCAACAGACACACCTTGACAGAGTGAACGAGTGGAGAA-----GCC 256
Db      975 -----AsnHisGlyThrCysLysSerArgProGlyGlyLysPheHisCysValA 989
QY      257 CTTCCAGGAGATGGACAGACCTCTGAGAGTTG-----ATAGATAGT----- 301
Db      990 CysProProGlyPheValGly-----LeuArgCysGlnGlyLysArgAlaArgGlyCysLeu 1007
QY      302 GATCCSSCATGCGAAGTCAAGAGGGGTGCT-----GAGGTATGACAGAGAGTAT 352
Db      1008 AsrArgProCysHisAsrProSerGlyThrAlaAlaCysHisSerLeuAlaAsnAlaPheTy 1027
QY      353 ---ACGTCTTCAAGC----- 367
Db      1028 CysGlnCysLeuProGlyHisThrGlyGlnArgCysGlnValGlyMetAsrLeuCysGln 1047
QY      368 ACTCAAAATTAAGGAGATGCTCTGCTCCAGAAAGAGAAATCCAGACCT-----GT 421
Db      1048 SerGlnProCysSerAsnGlyGlySerCys-GlyIleThrThrGlyProProProGlyLys 1067
QY      422 TACCTTCACTGTGCCCCCAGTCCAGAG----- 452
Db      1067 ethrCysHis---CysProLysGlyPheGlnGlyProThrCysSerHisLysAlaLeuSe 1086
QY      453 ---CTGCTCTTTTCAAGACTGATGAGGCCAAGTGTCTGCTGATCCCAACAGACAC 508
Db      1086 rCysGlyLysHisCysHisAsnGlyGlyLeuCysLeuProSerPro----- 1102
QY      509 ATATGAGAGCCTGAGTACCT-----ATCGAGGCTCGGCTGACCA-- 554
Db      1103 -----LysProGlySerProProLeuCysAlaCysLeuSerGlyPheGlyGlyProAs 1120
QY      555 -----GCTGACTATCTCAAGACCTGAGCTTTCCT-----GTGAGAGAGT 595
Db      1120 rCysLeuThrProProAlaProProGlyCysGlyProProSerProCysLeuHisValAsnG 1140
QY      596 GACTTGACATGGACAGACATGCATGTCACCTGGGAACCTCGACAGACAAAGTAAATCC 655
Db      1140 yThrCysThrGlnThrProGly-----LeuGlyAsnProGlyPheGlnCysThrCysArg 1158
QY      656 AGACAGACAGATGTGACAGACAAACGTGCAT----- 689
Db      1158 oProAsrSer-----ProGlyProArgCysGlnArgProGlyAlaSerGlyCysGlyG 1176
QY      690 -----AATGCCAAATGTTAAATGTGAGTTTACAGCCTAGCT 727
Db      1176 yArgGlyLysArgGlyThrCysAsrAlaGlyCys-----SerGlyProGlyGlyLys 1193
QY      728 ATGGGAC----- 734
Db      1193 pThrAsrGlyLysArgCysSerLeuGlyValProAsrProThrLysGlyCysProProHis 1213
QY      735 -----TGCCTGCTCTAGTCCAGGAATCATG----- 761
Db      1213 sSerGlnCysThrLeuPheArgPheArgGlyArgCysHisProGlnCysAsrSerGlyG 1233
QY      762 -----GGGTAGTACTGCTCTCCAACTCTG----- 788
Db      1233 uCysLeuPheAsrGlyTyArgCysGlyLysLeuProThrCysIleProAlaTyArgAl 1253
QY      789 -----GCGTGTAAAGACTCAGGC 808
Db      1253 nTyArgAsrAsnHisPheHisAsnGlyHisCysGlyLysGlyCysAsnValAsnAlaGlyCys 1273
QY      809 TAGTCCCTCCATGAGGGGCTGCGCCCTCCGAGAGGTTCCGAGGAGGAGCCATAC 868
Db      1273 velTyThrAsrGlyLysArgCysArgProGlyGlyLysAsrSerGlyGlyArgProSerLe 1293
QY      869 TGTGTTCATATAGTGTGAGATGATGATTAAGCCCTGCTGCTGCTGCTGACATGTCACA 928

```



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QY 417 GCGTGAATGTTCTTCTTGAGGAGACATTCTCCCTAATTGACTGCTTGAGA 358
   ::::: ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 692 rovalAlaIleProMetSerSerGlyAspThrGluAspProGlyValAlaSerGlyTyr 712
QY 357 CACGTTACCTCTCTCTCATCACTGACACACCCCTCTGACTTCCGATGGGGATCACTA 298
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 712 aIser-SerAlaAspLeuVal-----PheThrProAsnSerGlyAlaSer 726
QY 297 TCTATCAACCTC-----CAGAGAGTCTGTCATCTCCCT 262
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 727 SerValSerLeuValProSerLeuGlyLeuProSerAspGlnThrProSerLeuCySpro 746
QY 261 GGAAGGACTTCT---CCCATGCTGCTACCTGTCAGGTG----- 226
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 747 GlyLeuAlaSerGlyProProGlyAlaProGlyProValLysSerGlyPheGlnGlyTyr 766
QY 225 GTCTGTTGTGACACACAGGCCGACACTGGGCGATGCTCTACACAGATCCACAGCC 166
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 767 ValGluLeuProProIleGluGlyArg-SerProArgSerProArgAsnAsnProValIle 786
QY 165 T-----CAGCAGGTTGAACACTGAAGAGAGAGCTCCCG 130
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 786 oProGluAlaLysSerProValLeuAsnProGly-----GluArg 799
QY 129 TGGTGTAGAGATGACCCAGCAGCGGTAGTCTTCTGGGGAGTGGTCTGGAGATACAC 70
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 799 gProAlaAspValSerProThrSerProGlnProGluGlyLeuLeuValLeuGlnGlnIva 819
QY 69 TGGTACTCGTACTGCTGCTTCCG 45
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 819 IGlyAsp---TyrCySphLeuPro 826

```

RESULT 8

```

US-09-266-225D-18
; Sequence 18, Application US/09266225D
; Patent No. 6573364
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishan
; APPLICANT: Kindemore, Stephen
; APPLICANT: Tchenerv, Velizar
; TITLE OF INVENTION: Isolation and Characterization of Hermansky-Pudlak
; TITLE OF INVENTION: Syndrome (HPS) Protein Complexes and HPS Protein-
; FILE REFERENCE: 15966-523
; CURRENT APPLICATION NUMBER: US/09/266,225D
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 1184
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-266-225D-18

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Alignment Scores:

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Pred. No.: 0.00377 Length: 1184
Score: 117.00 Matches: 92
Percent Similarity: 32.23% Conservative: 34
Best Local Similarity: 23.53% Mismatches: 140
Query Match: 4.57% Indels: 125
DB: Gaps: 20

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US-09-989-919-15 (1-1397) x US-09-266-225D-18 (1-1184)

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QY 1190 GCCCGGCGCCGACCC----- 1176
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Db 365 AlAProlaIProPromeIaArgPheProTyrSerSerSerSerSerAlaAla 384
QY 1175 -----CCGCCGAGGCTCGGCTCAAAACACA 1149
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 385 SerSerSerSerSerSerSerSerSerSerAlaSerProPheProAlaAlaLeu 404
QY 1148 CTGCT-----CCCTGACCCGAGCTTGCTGATGATGAGGTGACACT 1104

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Db 405 ProSerTyrProHisSerPheProProProThrHisSerLeuSerValSerAsnGlnProPro 424
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1103 CTGCCCGTACCCCTGGGCTGGCTGGAGTGATCCCTGTGCGGAGGTACAGATAGGCT 1044
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 425 LysTyrThrGlnProSerLeuProSerGlnAlaValIleProSerGlnGlyProProProPro 444
QY 1043 CCCGAG-----GTACAGATCACCCACATCTCTGAGCATCCCGCCGCAAG 999
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 445 ProProTyrGlyArgLeuLeuAlaAsnSerAlaHisProGlyProPheProPro--- 463
QY 998 TCTCTGTCCAGACTTAAGTGAAGAACATCCACAGATGATTTGCTCCACAGACCCC 939
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 464 -----SerThrGlyAlaGlnSerThrAlaHisProProValSerThrHisHis 480
QY 938 CACCGCTGCTGTGGCATGTCAGACAGACAGACAGAGGGCTTTACTACAT----- 888
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 481 HisHisGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnHisHisGlyAsn 500
QY 887 -----TCTCACACTATTGAACACAGATGATGGGCTGCC 855
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 501 SerGlyProProProProGlyAlaPheProHisProLeuGlu-----GlyGlySerSer 518
QY 854 CACGGAACCGTCCGAGGAGGAGGAGGAGCCCGGAGTGGGAGACTTAAGCTTGCTT 795
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 519 HisHisAlaHisPro---TyrAlaMetSerPro---SerLeuGlySerLeu 533
QY 794 ACAGCCACAGGTTGAGAGGAGGAGTCAATACCCCATGATTCCTGGACTAGAGACAGCA 735
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 534 ArgProTyrProProGlyProAlaHisLeuProPro----- 545
QY 734 GTCCCATAGCTAGGCTGTAACTACATTTTAACATTGGCATTTATGACGTTTGCC 675
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 546 -----ProHis-----SerGlnValSer 551
QY 674 TGGTCATCTGTCTGTCTGGAGATGTACTTGTCTGAGGGTTCACAGTGCATCC 615
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 552 TyrSerGlnAlaGlyPro-----AsnGlyProProValSerSer 564
QY 614 AGTGTGCGCAGCAAGTCACTCCCTCCACAGCAAGCCAGCTGTGAGATGACAC 555
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 565 SerSerAsnSerSerSer-SerThrSerGlnGlySerTyrProCyS----- 579
QY 554 TGGTCACCGCAGCCCTCAG-----ATAGGTACAGCAGAGGCTTCACATATGTGT 504
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 580 -SerHisProSerProSerGlnGlyProGlnGlyAlaProTyrProPheProProValPr 599
QY 503 CTGTGTGGATCAGGACCACTTGCTCCATCCAGTCTTGAAGAAAGACAGCTCCGAC 444
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 599 oThrValThrThrSerSerAlaThrLeuSerThrValIleAlaIleAlaSerSerPr 619
QY 443 TGGGGGGCAGAGGTGAGAGTAAACAGGGCTGATGTTCTTTCGA----- 395
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 619 oAlaGlyTyrLys-----ThrAlaSerProProGlyProProProTyr 633
QY 394 -GGCAAGACCATTCCTTAATTGACTGCTTGAAGACAGATACCTCTCTCATCA 336
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 633 rGlyLysArg---AlaProSerProGlyAlaTyrLysThrAlaIleProProGlyTyrLys 652
QY 335 CCTGACACCCCTCTGACTTCGATGGGGGATCACTATCTTCAACTCCAGAGAGGTC 276
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 652 sProGlySerProProSerPheArgThrGly-----ThrProPro----- 665
QY 275 CTGCATCTCCCTTGAAGAGGCTTCCACATGCGTCACTTGAAGAGGTGTGCTGG 216
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 666 -----GlyTyrArgGly-----ThrSerProProAlaGlyProGly 677
QY 215 TGACACACAA-----GGCCGACACTGGGC 191
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 677 yThrPheLysProGlySerProThrValGly 687

```

RESULT 9

US-09-041-886-23

Sequence 23, Application US/09041886
Patent No. 6235872
GENERAL INFORMATION:
APPLICANT: Bredesen, Dale E.
APPLICANT: Rabizadeh, Shantoz
TITLE OF INVENTION: Proapoptotic peptides, Dependence
TITLE OF INVENTION: Polypeptides and Methods of Use
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,886
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 1185 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-041-886-23
Alignment Scores:
Pred. No.: 0.00377 Length: 1185
Score: 117.00 Matches: 92
Percent Similarity: 32.23% Conservative: 34
Best Local Similarity: 23.53% Mismatches: 140
Query Match: 4.57% Indels: 125
Gaps: 20
US-09-989-919-15 (1-1397) x US-09-041-886-23 (1-1185)
QY 1190 GCCCGGCGCCGACCC----- 1176
DB 366 AAlaProAlaProProMeAlaRhpheProTyRserSerSerSerSerAlaAlaAla 385
QY 1175 -----CCGCCCCAGGCTCTGCTCAAAACACA 1149
DB 386 SerSerSerSerSerSerSerSerSerAlaSerProPheProAlaSerGlnAlaAla 405
QY 1148 CCGTCT-----CCGTACCCCACTCTTGCTATGCTGAGGTGTCACCT 1104
DB 406 ProSerTyRProHisSerPheProProTherSerLeuSerValSerAngInProPro 425
QY 1103 CCGCCCTGACCCCTGGGCTGGGAGTGTCCTGCGGAGGTCAGAGATGACCT 1044
DB 426 LysTyRThGlInProSerLeuProSerGlnAlaValTrpSerGlnIlyProProPro 445
QY 1043 CCCCAG-----GTACAGAAATCACCCACATCTGAGACATCCCCCGCCAG 999
DB 446 ProProTyRGLyArgLeuLeuAlaAsnSerAsnAlaHisProIlyProPheProPro 464
QY 998 TCTCTGTCAGACCTTAAGGTGAGAGACATCCACAGATGATGTCGCCACGACGCC 939
DB 465 -----SerThrGlyAlaGlnSerThrAlaHisProProValSerThrHisHis 481

QY 938 CACCCGCTGCTGTGGCATGTGACAGACAGACAGGGGCTTTAGCTACAT----- 888
DB 482 HisHISGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGln 501
QY 887 -----TCTCACTATTGAACACAGTATGAGGCTGCC 855
DB 502 SerGlyProProProProIlyAlaPheProHisProLeuGlu-----GlyIlySerSer 519
QY 854 CACGAAACCGTCCGAGGAGGGGACAGCCCGGAGAGACTGAGCTGAGTTCCT 795
DB 520 HisHISAlaHisPro-----TyRAlaMetSerPro-----SerLeuGlySerLeu 534
QY 794 ACAGCCACAGGAGGTGAGAGGACAGTATACCCCATGATTCCTGACTAGAGCCAGCA 735
DB 535 ArgProTyRProProIlyProAlaHisLeuProPro----- 546
QY 734 GTCCATAGCTAGGCTGGTAACTACATTTTAACATTTGGCATTTTGCACGTTTGTCC 675
DB 547 -----ProHis-----SerGlnValSer 552
QY 674 TGTCACATCTGTCTGTGGATGTAGCTTTGTCTGACAGGGGTTCCAGGTGACATCC 615
DB 553 TyrSerGlnAlaGlyPro-----AsnGlyProProValSerSer 565
QY 614 AGTGTGACCATGTGACATGCTCTCCACAGCAAGCCAGCTGCTGAGATGATGACG 555
DB 566 SerSerAsnSerSerSerSerTherSerGlnIlySerTyRProCys----- 580
QY 554 TGCTAGCCGAGCCCTCAG-----ATAGTCAGCCAGAGGCTTCACATATGTGT 504
DB 581 -SerHisProSerProSerGlnIlyProGlnIlyAlaProTyRProPheProProValPr 600
QY 503 CTGTGGAGTACAGGAGACACTGTGCTCATCCATCTTGAAGAAAGACAGCTGCCGAC 444
DB 600 OThValThrThrSerSerAlaThrLeuSerThrValIleAlaThrValAlaSerSer 620
QY 443 TGGGGGGCAGAGTGAAGAGTAAACAGGCGTGATTTCTCTTCTGCA----- 395
DB 620 AlaIlyTyRlys-----ThrAlaSerProProIlyProProPro 634
QY 394 -GGCAAGACATTTCTCTAATTGATGCTTGAAGACAGTATACCTCTCTCATCA 336
DB 634 rGlylsArg--AlaProSerProGlyAlaIlyTyRThrAlaThrProProGlyTyRly 653
QY 335 CCTCAGCACCCCTCTGACTTCCGATGGGGATCACTATATCACTCCAGAGAGTIC 276
DB 653 sProIlySerProProSerPheArgThrGly-----ThrProPro----- 666
QY 275 CTGCATCTCCCTTGAAGAGGCTTCTCCACATGCTCAGCTGTCAGAGTGTGTTGG 216
DB 667 -----GlyTyRArgly-----TherSerProProAlaGlyProG 678
QY 215 TGACCACAA-----GGCCGACACTGGGC 191
DB 678 YThrPheLysPProIlySerProThrValGly 688
RESULT 10
US-09-046-158A-2
Sequence 2, Application US/09046158A
Patent No. 6187552
GENERAL INFORMATION:
APPLICANT: Roberts, Steven L.
APPLICANT: Kayles, Paul S.
TITLE OF INVENTION: METHOD FOR IDENTIFYING INHIBITORS OF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pharmacia & Upjohn Co., Intellectual Property
STREET: 301 Henrietta Street
CITY: Kalamazoo
STATE: MI
COUNTRY: USA

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/783,774
FILING DATE: 15-JAN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7682-037
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 907 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-783-774-2

Alignment Scores:
Pred. No.: 0.00538
Score: 115.00
Percent Similarity: 32.77%
Best Local Similarity: 21.69%
Query Match: 4.49%
Length: 907
Matches: 90
Conservative: 46
Mismatch: 117
Indels: 162
Gaps: 18

US-09-989-919-15 (1-1397) x US-08-783-774-2 (1-907)

1182 CCCACCCCGCCAGT---CCTGGCTCAACACAC---1147
442 ProAsnThrThrThrGlyLeuProSerSerThrHisValProThrAsnLeuThrAlaPro 461
1146 TGCTCCCTGACCCAGCTTGCTGCTCATGCTGAGTGTGACCTCTGCCCTGACCCCTGG 1087
462 AlaSerThrGlyProThrValSerThrAlaAspVal---ThrSerPro---476
1086 GCTGGCTGGAGTGTCCCTGTCGGAGGTGACAGATAGCTCCCGAGGTACAGATCA 1027
477 ---ThrProAlaGlyThrThrSerGlyAlaSerProValThrProSer 491
1026 CCCACATCTGAGCATCCCGCCGCAAGTCTCTGTCAGACCTAGCTGAGAGAACT 967
492 ProSerProThrAspAsnGlyThrGlySerLeuAlaProAspMetThrSerSerThrSer 511
966 CACGATGATGTCTCCCGACGACGCCCGCTGCTGTGCAATGTGACAGACGAC 907
512 Pro---ValThrThrProThrProAsnAlaThrSerProThrProAlaVal 527
906 GACGGGCTTACTACTATTCTCACACTATTGAACACAGTATGGGCTGCCACGGAAC 847
528 Thr---528
846 CGTCCAGAGGAGGACAGCCCGCAGTGGGAGACTAGCTGAGTTGCTTACAGCCCA 787
529 ---ThrPro 530
786 CAGGTTGAGAGGAGCTATACCCCATGATT---754
531 ThrProAsnAlaThrSerProThrProAlaValThrThrProThrProAsnAlaThrSer 550
753 CCGAGCTAGAGGACGAGCTCCCATAGCAGGCTGTGTAACACATTTTAATTGG 694
551 ProThrLeuGlyThrSerProThrSerAlaValThrThrProThrProAsn---568
693 CATTATTGACAGTTTGTCTGTCACATCTGTCTGTGGAGTATGCTTGTCTGAC 634

569 -----AlaThrSerProThrLeuGly-LysThr-----SerPro 579
633 GGGTCCAGTATGATGATGATGCTGCTGCAAGTCACTCCCTCACAGACAG---578
579 oThrSerAlaValThrThrProThrProAsnAlaThr-SerProThrProValThr 599
577 -----CCAGCTGCTGAGATAGTACAGTGTGAC 547
599 eProThrSerAlaValThrThrProThrProAsnAlaThrGlyProThrAlaGlyThr 619
546 CAGACCTCAG-----536
619 hSerProGlnAlaAsnAlaThrAsnHisThrLeuGlyGlyThrSerProThrProVal 639
535 --ATAGTACGACAGAGGCTTACATATGTGTCTGTGGATAGGAGACCACTGGC 478
639 aThrSerGlnProGlyAsnAlaThrSerAlaVal-----ThrThrGlyG 654
477 TCATCCAGTCTTGAAGAAAGACC-----AGTTCGACCTGGGGGAGAGGT 430
654 hHisAsnLeuThrSerSerSerThrSerSerMetSerLeuThrProSer-----670
429 GAGAGTAACAGGCTGATGTTTCTTCTTGTGAGGCAAGACATTTCTCCTAATTGA 370
671 -----SerAspProGlnThrLeuSerProSerThr 681
369 CTGCTTGAAGACAGTATACCTCTCTCATCACTGACACCCCTCTGACTTCGAT 310
681 eAspAsnSerThrSer-HisMetProLeuThrSerAlaHisPro-----Thr 697
309 GGGGATCATCTATCATCACTCCAGAGAGTCTGCAATCTCCCTTGGAGGCTTCT 250
698 GlyGlyGlu-----AsnIle-ThrGlnValThrProAlaSerIle-----710
249 CCACTGCTACCTGTCCAGGTGTGTGTGTGATGACCAAGAGCCGACACTGGGCA 190
711 -----SerThrHis 714
189 TGCTCTACAGACATCCACAGCTTCAGCAGGTGACATGAAAGAGGACGCTCCG 130
714 sValSerThrSerSerProGlnProArgProGlyThrThr-----SerGlnAla 731
129 TGCTGTAGATGAGCCAGCAGCGGTAGTCTTCCTGG 93
731 rGlyProGlyAsnSerSerThrSerThrLysProGly 743

RESULT 12
US-09-328-599A-1
Sequence 1, Application US/0932859A
Patent No. 6432679
GENERAL INFORMATION:
APPLICANT: MORD, James J. and Lees, Andrew
TITLE OF INVENTION: Enhancement of B Cell Activation by
TITLE OF INVENTION: Co-Activation of Receptors for Antigen and Complement C3d
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSER: Dunner, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/328,599A
FILING DATE:
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
 NAME: Fordie, Jean B.
 REGISTRATION NUMBER: 32,984
 REFERENCE/DOCKET NUMBER: 04995.6025-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202)408-4000
 TELEFAX: (202)408-4400
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 907 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-09-328-599A-1

Alignment Scores:
 Pred. No.: 0.00538 Length: 907
 Score: 115.00 Matches: 90
 Percent Similarity: 32.77% Conservative: 46
 Best Local Similarity: 21.69% Mismatches: 117
 Query Match: 4.49% Indels: 162
 DB: 4 Gaps: 18

US-09-989-919-15 (1-1397) x US-09-328-599A-1 (1-907)

1182 CCCACCCCGCCCGAGT---CCTGGCTCAACACACAC--- 1147
 442 ProAsnThrThrThrGlyLeuProSerSerThrHisValProThrAsnLeuThrAlaPro 461
 1146 TGCTCCCTGACCCCGAGTCTTGCTGCTGAGTGTGACCTCTGCCCTGACCCCTGG 1087
 462 AlasThrGlyProThrValSerThrAlaSerVal-----ThrSerPro----- 476
 1086 GCTGGCTGGAGTGTCTCTGCTGCGAGGTGACAGTACCTCTCCCAAGTACAGATCA 1027
 477 -----ThrProAlaGlyThrThrSerGlyAlaSerProValThrProSer 491
 1026 CCCACATCTGAGACATCCCGCCGACGTCCTGTCGACGACCAAGCTGAGAGACACT 967
 492 ProSerProTrpAspAsnGlyThrGlySerLeuAlaProAspMetThrSerThrSer 511
 966 CCAAGATGATGTGCTCCACAGCAGACCCCGCTGCTGAGGTGACAGCAGCA 907
 512 Pro-----ValThrThrProThrProAsnAlaThrSerProThrProAlaVal 527
 906 GCAAGGCGCTTACCTACATTTCTACACTATTGAACAGATGAGGGGCTGCCACGSAAC 847
 528 Thr----- 528
 846 CGTCCAGGAGGGGACAGACCCCGACGAGGAGACTAGCCTGAGCTTGTTACAGCCA 787
 529 -----ThrPro 530
 786 CAGGTTGAGAGGAGCTCATACCCCGATGTT----- 754
 531 ThrProAsnAlaThrSerProThrProAlaValThrThrProThrProAsnAlaThrSer 550
 753 CTGAGACTAGAGCAGCAGCTCCCATAGCTAGAGCTGTAATCATCACTTTTAACTTTGG 694
 551 ProThrLeuGlyThrThrSerProThrSerAlaValThrThrProThrProAsn----- 568
 693 CATATTGACAGTTGCTGCTGCTGACATCTGCTGAGGATTTAGCTTTGCTGACG 634
 569 -----AlaThrSerProThrLeuGly-LysThr-----SerPr 579
 633 GGGTTCCAGGTGACATGAGTGTGACGAGTACGACCTCTCCACAGGCAAG----- 578
 579 ctnSerAlaValThrThrProThrProAsnAlaThr-SerProThrLeuGlyLysThrS 599
 577 -----CCGAGCTGCTGAGAGTACGAGTACGCTGCTGACG 547
 599 exProThrSerAlaValThrThrProThrProAsnAlaThrGlyProThrValGlyLut 619

546 CGAGCCCTCAG----- 536
 619 hSerProGlnAlaAsnAlaThrAsnHisThrLeuGlyGlyThrSerProThrProVal 639
 535 --ATAGTACGCCAGAGGCGCTTACATATGCTGCTGTTGGATAGGAGCACTTGGC 478
 639 aThrSerInProLysAsnAlaThrSerAlaVal-----ThrThrGlyG 654
 477 TCCATCCAGCTTGAAAAGACC-----AGTCCGACCTGGGGGAGAGGT 430
 654 hHisAsnLeuThrSerSerThrSerSerMetSerLeuArgProSer----- 670
 429 GAGAGGTACAGGCGTGAATGTTCTTCTTGTGAGAGCAAGCATCTTCCCTAATTGA 370
 671 -----SerAsnProGluThrLeuSerProSerThrS 681
 369 CTGCTTGAAGACAGCTATACCTCTCTCTCATACCTGACACCCCTTGACTTCCGAT 310
 681 exAspAsnSerThrSer-HisMetProLeuLeuThrSerAlaHisPro-----Thr 697
 309 GGGGATCACTATCTATCAACCTCCAGAGAGGTCTGCCATCTCCCTTGAAGGCTTCT 250
 698 GlyGlyGlu-----AsnIle-ThrGlnValThrProAlaSerIle----- 710
 249 CCCACTGCTCACTGTCCAGGTGTCTGTTGTGACCAAAAGGCCGACACTGGACA 190
 711 -----SerThrHisH 714
 189 TGCTCTCACAGATATCCACAGCTTACGCGAGTTGAACACTGAAGAGGAGCTCCCG 130
 714 sValSerThrSerSerProGlnProArgProGlyThrThr-----SerGlnAla 721
 129 TGCTGTAGAGATGCCAGCAGCGGTAGTCTTCTCTGGG 93
 731 rGlyProGlyAsnSerSerThrSerThrIlyProGly 743

RESULT 13
 PCT-US95-04611A-19
 Sequence 19, Application PC/TUS9504611A
 GENERAL INFORMATION:
 APPLICANT: Spaete, Richard and Jackman, Winthrop, T.
 TITLE OF INVENTION: Non Splicing Variants of gp350/220
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
 STREET: 5 Palo Alto Square
 CITY: Palo Alto
 STATE: California
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/04611A
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/229,291
 FILING DATE: April 18, 1994
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Luanan Cseri
 REGISTRATION NUMBER: 31,822
 REFERENCE/DOCKET NUMBER: AVIR-003/00US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-843-5163
 TELEFAX: 415-857-0663
 TELEX: 380816 CooleyPA
 INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:
 LENGTH: 907 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US95-04611A-19

Alignment Scores:
 Pred. No.: 0.00538 Length: 907
 Score: 115.00 Matches: 90
 Percent Similarity: 32.77% Conservative: 46
 Best Local Similarity: 21.69% Mismatches: 117
 Query Match: 4.49% Indels: 162
 DB: 5 Gaps: 18

US-09-989-919-15 (1-1397) x PCT-US95-04611A-19 (1-907)

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QY 1182 CCCACCCCCGCCCCAGT---CTGGCTCAACCCACAC----- 1147
DB 442 ProAsnThrThrThrGlyLeuProSerSerThrHisValProThrAsnLeuThrAlaPro 461
QY 1146 TGCTCCCTGACCCAGCTTGCTGCTCAGTGTGACACTCTGCCCCCTGACCCCTGG 1087
DB 462 AlaSerThrGlyProThrValSerThrAlaAspVal-----ThrSerPro----- 476
QY 1086 GCTGCGCTGGAGTGTCCCTGCTGGGAGGTGACAGATAGCTCCCGGAGTACAGATCA 1027
DB 477 -----ThrProAlaGlyThrThrSerGlyAlaSerProValThrProSer 491
QY 1026 CCCACATCTGTGAGCATCCCGCCCAAGTCTCTGTCCAGACCTGAGAGTGAAGAACT 967
DB 492 ProSerProThrPheAspGlyThrGlySerLeuAlaProAspMetThrSerSerThrSer 511
QY 966 CCAACATGATGTGTCCCGACGACGCCCGCTGCTGTGAGTGTGACAGTGAAGAGCA 907
DB 512 Pro-----ValThrThrProThrProAsnAlaThrSerProThrProAlaVal 527
QY 906 GCAGGGGCTTTAGTACTATCTCACACTATTGAACACAGTATGGGGCTGCCACGGAAC 847
DB 528 Thr----- 528
QY 846 CGTCCAGGAGGGGACAGACCCCGAGTGGGAGACTAGCTGAGTTGCTTACAGCCCA 787
DB 529 -----ThrPro 530
QY 786 CAGGTTGAGAGGACGATACCCCGATGAT----- 754
DB 531 ThrProAsnAlaThrSerProThrProAlaValThrThrProThrProAsnAlaThrSer 550
QY 753 CCTGAGCTAGAGAGCCAGAGTCCCATAGGCTGATTAACACACTTTTACATTGG 694
DB 551 ProThrLeuGlyThrSerProThrProAsnAlaValThrThrProThrProAsn----- 568
QY 693 CATTATTGACGTTGTCTGTGCTGACATCTGTCTGTGGAGTATGAGTTTGTCTGAC 634
DB 569 -----AlaThrSerProThrLeuGly-LysThr-----SerP 579
QY 633 GGGTTCACAGTACATGACAGTCTGACAGTCAAGTCACTCCCTCCACAGGCAAG----- 578
DB 579 oThrSerAlaValThrThrProThrProAsnAlaThr-SerProThrLeuGlyLysThrS 599
QY 577 -----CCGAGCTGCTGAGGATGATGATGATGATGATGATGATGATGATGATGAT 547
DB 599 ePProThrSerAlaValThrThrProThrProAsnAlaThrGlyProThrValGlyLys 619
QY 546 CGAGCCCTCAG----- 536
DB 619 hSerProGlnAlaAsnAlaThrAsnHisThrLeuGlyGlyThrSerProThrProVal 639
QY 535 --ATAGGTACGACGAGGCTTACATATGTGTCTTGTGGATGAGGACCACTTGGC 478
DB 639 aThrSerGlnProLysAsnAlaThrSerAlaVal-----ThrThrGlyG 654
  
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QY 477 TCCATCAGTCTTGAAGAAAGACC-----AGTCCGACCTGGGGGAGAGAGT 430
DB 654 LhIsAsnLeThrSerSerSerThrSerSerMetSerLeuArgProSer----- 670
QY 429 GAGAGGTAAACAGGGCTGAGATGTTTCTTCTTCTGAGGACAAAGACCAATTCTCCTAATTGA 370
DB 671 -----SerAsnProGluThrLeuSerProSerThrS 681
QY 369 CTGGCTTGAAGACAGTATACCTCTCTCATACCTCAAGACCCCTGCACTTCCGAT 310
DB 681 ePAsnSerThrSer-HisMetProLeuThrSerAlaHisPro-----Thr 697
QY 309 GGGGATCACTATCTATCAACCTCCAGAGAGTCTGCAATCTCCCTGGAGAGGCTTCT 250
DB 698 GlyGlyGly-----AsnIle-ThrGlnValThrProAlaSerIle----- 710
QY 249 CCCACTGGCTACCTGTCCAGAGTGTGTGTGTGACCAAAAGGCCGACATGGGCA 190
DB 711 -----SerThrHisH 714
QY 189 TGCTCTCACAGACATCCACAGCTCAGCGAGTTGAACATGAAGAGGACGCTCCG 130
DB 714 sValSerThrSerSerProGluProArgProGlyThrThr-----SerGlnAla 731
QY 129 TGGTGTAGATGGCCAGCAGCGGTAGTCTTCTCTGGG 93
DB 731 rGlyProGlyAsnSerSerThrSerThrLysProGly 743
  
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RESULT 14

US-08-127-499A-8
 ; Sequence 8, Application US/08127499A
 ; Patent No. 5510264

GENERAL INFORMATION:

APPLICANT: VAN ALSTINE, Diane
 TITLE OF INVENTION: ANTIBODIES WHICH BIND MENINGITIS RELATED
 TITLE OF INVENTION: HOMOLOGOUS ANTIGENIC SEQUENCES
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Foley & Lardner
 STREET: 3000 K Street, N.W., Suite 500
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/127,499A
 FILING DATE: 28-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: BENT, Stephen A.
 REGISTRATION NUMBER: 29,768
 REFERENCE/DOCKET NUMBER: 51916/102/INBI
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 672-5300
 TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
 LENGTH: 1063 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 US-08-127-499A-8

Alignment Scores:
 Pred. No.: 0.00577 Length: 1063
 Score: 115.00 Matches: 95
 Percent Similarity: 31.65% Conservative: 37

Best Local Similarity: 22.78% Mismatches: 136
 Query Match: 4.49% Indels: 149
 DB: 1 Gaps: 20

US-09-989-919-15 (1-1397) x US-08-127-499A-8 (1-1063)

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QY 1184 GCCCAACCCCCCCCCGAGTCTGGCTCAAC-----ACACTGCTCCCTGACCC 1134
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QY 1133 CACTCTGGCTCACTGCTGAGAGTGCACCTCTGCCCCCTGACCCCTGGAGCTGGAG 1074
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 97 SerArg-----AlaPro--ProGlnInProGln-----105
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QY 1073 TGTCCCTGTGGAGAGTCAAGATAGCTCCCGAGTACAG-----AAT 1029
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 106 -----ProProArgMetGlnThrGlyArgGlySer 116
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1028 CACCAACATCTGGAGATCCCGCCGCAAGTCTCTGTCAGACCTAAGCTGAGAG-- 972
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 117 AlaProArgProGluLeuGlyProProThrAsnProGlnAlaAlaValAlaArgGly 136
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 971 -----ACACTCCACGATGATTCTCCACAGCAGCCCGCCGCTGCTGT----- 926
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 137 LeuArgProProLeuHisAspPro--AspThrGln-AlaProThrGlnAlaCysValTh 155
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 925 ----GGCATGTGACGACGACGACGAGGGGCTTAGTACATCTTCACATTTGAACAC 870
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 155 rSerTrpLeuTrpSerGlnGlyGlnGlyAlaValPheThrArgValAspLeuHisPhe 175
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 869 AGTATGGGGCTGCCACGGAACCGTCCAGGA-----836
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 175 rAenLeuGlyThrProProLeuAspGluAspGlyArgTrpAspProAlaLeuMetTyrAs 195
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 835 -----GGGACAGAGCCCAAGTGGGAGACTAAGCTGAGCTTCTAAGCCACAG 783
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DB 195 nProCysGlyProGlnProPro--AlaHisValAlaArgAlaTyrAsnInProAlaG 214
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QY 782 GTTGAAGAGGACGATCAATACCCCATGATTCCTGATAGGACGACAGTCCCATAGCTA 723
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DB 214 yAspValArgGlyValTrpGlyLysGlyGlnArgThrTyrAlaGlnHisPheArgVal 234
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QY 722 GGCTGTAACTCATATTTAATGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 663
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DB 234 lGlyGly-----ThrArgTrpHisArgLeu-----ArgMetPr 246
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QY 662 TCTGTCTGGAGATGTAAGCTTTGTGAGAGGTTCCAGAGTACATGCTGCTGCTGCT 603
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DB 246 oValArgGlyLeuAspGlyAspSerAlaProLeuProPro--HisThrThrGluArg 265
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QY 602 GCAAGTCACTCCCTCCACAGGCAAGCCAGCTGTGAGTATGCTGCTGCTGCTGCTG 545
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DB 265 eGluThrArg-----SerAlaArgHisProTr 274
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QY 544 -AGCCCTCAGATAGTCAAGCAGGAGGCTTCAATATGTGATTTGTTGGAGTACAGGAG 486
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DB 274 pArgGlnLeuArgPheGlyValProGlnAlaPheLeuAlaGlyLeuLeuLeuAlaThrVal 294
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QY 485 CACTGTGCTCACTCACTCTTTGAAAAAGACAGCTGCCAGCTGGGGGGGACAGAGTGA 426
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DB 294 a-ValGlyThrAlaArgAlaGlyLeuGlnProAlaArgAlaAspMet----- 308
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QY 425 GGTAAACGGGCTGGATTTCTCTTTGTGAGGCAACATTCCTCAATTGATGCTC 366
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DB 308 -----308
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QY 365 CTGGAAGACAGATACCTCTCTCTCATCACTCAGACAGCCCTGATTCGATGGAGG 306
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DB 309 -----AlaAlaProProThr-LeuProGlnPro 317
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QY 305 GATCATATCTATCAACCTCCAGAGAGGCTCTGCAATCTCCCTTGAAGGGCTTCTCCA 246
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DB 318 -----Pro 318
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QY 245 CTGGCTCACTCTGTCAGAGTGTCTGTTGGTGAACAAGAGCCGACACTGGGATGCG 186
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DB 319 CysAlaHisGlyGlnHisTyrGlyHisHisHisGlnLeuProGlnLeuHisAsp 338
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QY 185 TCTCAACAGACATCCACAGCCTCAGCAGGTTGAACACTGAAGAGGACAGCTCCGTGT 126
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DB 339 GlnHis-----GlyGlyThrLeuArgVal 347
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QY 125 GGTAGATGGCCACGAGCGGTAGT-----CTTCCTGGGGGATGG 87
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DB 348 GlyGlnHisTyrArgAsnAlaSerAspValLeuProGlnHisTrpLeuGlnGlyTrp 367
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QY 86 TGCTGTCTGGA-----TACACTGTACTCTGGTACTGC 54
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RESULT 15
 US-08-482-847-8
 ; Sequence 8, Application US/08482847
 ; Patent No. 5556757
 ; GENERAL INFORMATION:
 ; APPLICANT: VAN ALSTYNE, Diane
 ; APPLICANT: SHARMA, Lawrence Rajendra
 ; TITLE OF INVENTION: PEPTIDES REPRESENTING EPITOPIC SITES FOR
 ; TITLE OF INVENTION: BACTERIAL AND VIRAL MENINGITIS CAUSING AGENTS AND THEIR
 ; TITLE OF INVENTION: CNS CARRIER, ANTIBODIES THEREOF, AND USES THEREOF
 ; NUMBER OF SEQUENCES: 40
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Foley & Lardner
 ; STREET: 3000 K Street, N.W., Suite 500
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20007-5109
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/482,847
 ; FILING DATE: 07-JUN-1995
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/127,499
 ; FILING DATE: 28-SEP-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BENT, Stephen A.
 ; REGISTRATION NUMBER: 29,768
 ; REFERENCE/DOCKET NUMBER: 51916/104/INBI
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 672-5300
 ; TELEFAX: (202) 672-5399
 ; TELEX: 904136
 ; INFORMATION FOR SEQ ID NO: 8:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1063 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: unknown
 ; US-08-482-847-8

Alignment Scores:
 Pred. No.: 0.00577 Length: 1063
 Score: 115.00 Matches: 95
 Percent Similarity: 31.65% Conservative: 37
 Best Local Similarity: 22.78% Mismatches: 136
 Query Match: 4.49% Indels: 149
 DB: 1 Gaps: 20

US-09-989-919-15 (1-1397) x US-08-482-847-8 (1-1063)

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: December 12, 2003, 18:33:56 ; Search time 47.5 Seconds
(without alignments)
10939.755 Million cell updates/sec

Title: US-09-989-919-15

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Searched: 684280 segs, 185983659 residues

Total number of hits satisfying chosen parameters: 1368560

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Database : Published Applications AA:*

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11:	/cg2_6/ptodata/2/pubppa/US09_PUBCOMB.pep.*
12:	/cg2_6/ptodata/2/pubppa/US09_NEW_PUB.pep.*
13:	/cg2_6/ptodata/2/pubppa/US10_PUBCOMB.pep.*
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15:	/cg2_6/ptodata/2/pubppa/US10_PUBCOMB.pep.*
16:	/cg2_6/ptodata/2/pubppa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	283	11.1	52	10	US-09-989-919-83	Sequence 83, Appl
3	143	5.6	1426	15	US-10-322-579-15	Sequence 15, Appl
4	134.5	5.3	738	10	US-09-978-979-6	Sequence 6, Appl
5	134.5	5.3	738	15	US-10-057-487-6	Sequence 5, Appl
6	134	5.2	4123	15	US-10-213-509-5	Sequence 5, Appl
7	133.5	5.3	1150	12	US-10-140-472-531	Sequence 531, App
8	133.5	5.3	1150	12	US-10-141-761-531	Sequence 531, App
9	133.5	5.3	1150	12	US-10-142-885-531	Sequence 531, App
10	133.5	5.3	1150	12	US-10-158-790-531	Sequence 531, App
11	133.5	5.3	1150	12	US-10-137-871-531	Sequence 531, App
12	133.5	5.3	1150	12	US-10-140-805-531	Sequence 531, App
13	133.5	5.3	1150	12	US-10-140-864-531	Sequence 531, App
14	133.5	5.3	1150	12	US-10-140-923-531	Sequence 531, App
15	133.5	5.3	1150	12	US-10-141-766-531	Sequence 531, App
16	133.5	5.3	1150	12	US-10-141-759-531	Sequence 531, App
17	133.5	5.3	1150	15	US-10-123-155-531	Sequence 531, App
18	133.5	5.3	1150	16	US-10-146-731-531	Sequence 531, App
19	130.5	5.2	1346	12	US-10-140-472-481	Sequence 481, App
20	130.5	5.2	1346	12	US-10-141-761-481	Sequence 481, App
21	130.5	5.2	1346	12	US-10-142-885-481	Sequence 481, App
22	130.5	5.2	1346	12	US-10-158-790-481	Sequence 481, App
23	130.5	5.2	1346	12	US-10-137-871-481	Sequence 481, App
24	130.5	5.2	1346	12	US-10-140-805-481	Sequence 481, App
25	130.5	5.2	1346	12	US-10-140-864-481	Sequence 481, App
26	130.5	5.2	1346	12	US-10-140-923-481	Sequence 481, App
27	130.5	5.2	1346	12	US-10-141-756-481	Sequence 481, App
28	130.5	5.2	1346	12	US-10-141-759-481	Sequence 481, App
29	130.5	5.2	1346	15	US-10-123-155-481	Sequence 481, App
30	130.5	5.2	1346	16	US-10-146-731-481	Sequence 481, App
31	124.5	4.9	1280	12	US-10-087-887-86	Sequence 86, Appl
32	122.5	4.8	647	14	US-10-086-464-2	Sequence 2, Appl
33	122.5	4.8	647	14	US-10-086-464-5	Sequence 4, Appl
34	122.5	4.8	721	14	US-10-086-464-4	Sequence 5, Appl
35	121.5	4.7	522	10	US-09-764-868-1138	Sequence 1138, Ap
36	121.5	4.7	524	10	US-09-764-868-761	Sequence 761, Appl
37	121.5	4.7	1386	12	US-10-327-414-2	Sequence 2, Appl
38	120.5	4.7	1336	12	US-10-116-275-207	Sequence 207, App
39	120.5	4.7	1336	15	US-10-116-847-687	Sequence 68, Appl
40	119.5	4.7	613	12	US-10-260-937-16	Sequence 16, Appl
41	118	4.6	897	14	US-10-099-895-1	Sequence 1, Appl
42	117	4.6	775	12	US-10-224-999A-3462	Sequence 3462, App
43	117	4.6	2447	12	US-10-140-472-291	Sequence 291, App
44	117	4.6	2447	12	US-10-141-761-291	Sequence 291, App
45	117	4.6	2447	12	US-10-142-885-291	Sequence 291, App

ALIGNMENTS

RESULT 1
US-09-989-919-84
Sequence 84, Application US/09989919
Patent No. US2002016434A1
GENERAL INFORMATION:
APPLICANT: Macina, Roberto
APPLICANT: Recipon, Herve
APPLICANT: Pluta, Jason
APPLICANT: Ghosh, Malavika
APPLICANT: Sun, Yongming
APPLICANT: Liu, Chenghua
TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Pri
FILE REFERENCE: DEX-0289
CURRENT APPLICATION NUMBER: US/09/989,919
CURRENT FILING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: 60/252,505
PRIOR FILING DATE: 2000-11-22
NUMBER OF SEQ ID NOS: 124
SOFTWARE: PatentIn version 3.1
SEQ ID NO 84
LENGTH: 175
TYPE: PRT
ORGANISM: Homo sapien
US-09-989-919-84

Alignment Scores:

Pred. No.: 1,2e-71 Length: 175
 Score: 939.00 Matches: 175
 Percent Similarity: 99.43% Conservative: 0
 Best Local Similarity: 99.43% Mismatches: 0
 Query Match: 37.16% Indels: 1
 DB: 10 Gaps: 0

US-09-989-919-15 (1-1397) x US-09-989-919-84 (1-175)

QY 2 GTGCTCACCTTACCGGAGCGGAGATCTGACAGAACTCCAGCGCAAGCAGTACC 61
 DB 1 ValLeuHleuYrntgsergIyGlnTYLeuGlnHnsrThralaserSerThr 20
 QY 62 GAGTACCACTGTATCCAGACAGACATTCCTCCAGAGAACTACCGCTGCTGCATCC 121
 DB 21 GluTYrGlnCySrlleProApsrThrIleProGlnGlnApyrYrYrGCTPProser 40
 QY 122 TACACCAAGGAGCTGCTCTTTCAGTGTACCTGCTGAGGCTGCTGATGCTGT 181
 DB 41 TYHISHISGLYserCYsleuLeuSerValAphesnleuAlaGlnAlaValAspVal 60
 QY 182 GAGAGCCATGCCAGTGTCTGGGCTTTGTGTGTCACCAACCAACCACTGAGAGT 241
 DB 61 GluSerHISleGlnCYsArgAlaPheValIleThrAsnGlnThrTrpThrGln 80
 QY 242 CCGTGGGAGAACCTCTCCAGAGGAGATGCGAGACCTCTCGAGGTGATAGTAT 301
 DB 81 ProValGlyGlnAlaLeuProArgGluMetAlaGlyProLeuTrpArgLeuIleAsp 100
 QY 302 GATCCCCATCGAAGTCAGAGGGGGTCTGAGGTGTAGAGAGGTATACGTGCTT 361
 DB 101 AspProSerGlnValArgGlyGlyAlaGlnValMetArgGlnGlyTrpCYsleu 120
 QY 362 CAAGCAGTCAATAGAGAGAAATGTCTTCTCCAGAAAGAAACATCCAGCCCTGT 421
 DB 121 GlnGlyserGlnIleArgGlnuAenGlyLeuAlaserArgYrAsnIleGlnProCYs 140
 QY 422 TACCTCTACCTCTGCCCCCAGGTGCGGAGCTGCTTTTCAAGCTGAGTGAAG 481
 DB 141 TYrLeuSerProLeu-ProProGlyArgGlnLeuValAphPheYrThrGlyTrpSer 160
 QY 482 AGTGGTCCCTGATCCCAAGACCATATGTGAAGCCCTGCGC 527
 DB 160 nValValProAspProAsnYrThrTrpValYrAlaSerGly 175

RESULT 2

US-09-989-919-83

Sequence 83, Application US/09989919

Patent No. US20020164344A1

GENERAL INFORMATION:

APPLICANT: Macina, Roberto

APPLICANT: Recipon, Heve

APPLICANT: Pluta, Jason

APPLICANT: Ghosh, Malavika

APPLICANT: Sun, Yongming

APPLICANT: Liu, Chenghua

TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Pro

FILE REFERENCE: DEX-0289

CURRENT APPLICATION NUMBER: US/09/989,919

CURRENT FILING DATE: 2001-11-21

PRIOR APPLICATION NUMBER: 60/252,505

PRIOR FILING DATE: 2000-11-22

NUMBER OF SEQ ID NOS: 124

SOFTWARE: PatentIn version 3.1

SEQ ID NO 83

LENGTH: 52

TYPE: PRT

ORGANISM: Homo sapien

US-09-989-919-83

Alignment Scores:

Pred. No.: 1.02e-15 Length: 52
 Score: 283.00 Matches: 52
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 11.05% Indels: 0
 DB: 10 Gaps: 0

US-09-989-919-15 (1-1397) x US-09-989-919-83 (1-52)

QY 961 ARGGATTTGCCCCAGCGAGCCCCCAGCTGCTGAGTGTGACAGACAGACAG 902
 DB 1 MetAspCYsProHISleAlaProThrAlaCYsGlyMetCYsSerSerSerArg 20
 QY 901 GCCTTAGCTAATTTCTCACTAATTAACACAGTGTAGGGCTGCCAGAACCTGCC 842
 DB 21 GlyPheSerTYrIleLeuThrIleuLeuAenThrValMetGlyLeuProThrGluProser 40
 QY 841 CAGGAGGGGACAGCCCCCAGTGGGAGACTAGCC 806
 DB 41 GlnGlyGlyAlaGlnProProValGlyArgLeuAla 52

RESULT 3

US-10-322-579-15

Sequence 15, Application US/10322579

Publication No. US20030114413A1

GENERAL INFORMATION:

APPLICANT: BASLER, Konrad

APPLICANT: BRUNNER, Erich

APPLICANT: FROESCH, Barbara

APPLICANT: KRAMPS, Thomas

APPLICANT: PETER, Oliver

TITLE OF INVENTION: ESSENTIAL DOWNSTREAM COMPONENT OF THE WINGLESS SIGNALING PATHWAY

TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC APPLICATIONS BASED THEREON

FILE REFERENCE: 060361

CURRENT APPLICATION NUMBER: US/10/322,579

CURRENT FILING DATE: 2002-12-19

PRIOR APPLICATION NUMBER: US/09/915,543

PRIOR FILING DATE: 2001-07-27

PRIOR APPLICATION NUMBER: 60/221,502

PRIOR FILING DATE: 2000-07-28

NUMBER OF SEQ ID NOS: 22

SOFTWARE: PatentIn version 3.1

SEQ ID NO 15

LENGTH: 1426

TYPE: PRT

ORGANISM: Human Ige/bcl9

US-10-322-579-15

Alignment Scores:

Pred. No.: 0.00218 Length: 1426
 Score: 143.00 Matches: 118
 Percent Similarity: 31.03% Conservative: 39
 Best Local Similarity: 23.32% Mismatches: 161
 Query Match: 5.59% Indels: 188
 DB: 15 Gaps: 24

US-09-989-919-15 (1-1397) x US-10-322-579-15 (1-1426)

QY 1221 GCGTTTCATTTAAAGCAAAATGAGGCAAGAGCCCGCCCAACCC----- 1174
 DB 770 GlyGlnHisProGlnIn-----GluTYrGlyMetGlyProArgProPheLeuProMet 787
 QY 1173 GCGCCAGGCTCTGGGCTCA----- 1156
 DB 788 SerGlnGlyProDylSerAsnSerGlyLeuArgAsnLeuArgGluProIleGlyProAsp 807
 QY 1155 -----AACCAACACTGCTCTCCCTGACCCCGACCTCTG-----GCTCAT 1120
 DB 808 GlnArgThrAsnSerArgLeuSerHISMetProProLeuProLeuAsnProSerSerAsn 827
 QY 1119 GCTGAGGTGTGACCTCTGCTCCCTGACCCCTGGGCTGCGTGGAGTGTCCCTGTGCGG 1060
 DB 828 ProThrSerLeuAsnThrAlaProProValGlnArgGlyLeuGlyArgGlyProLeuAsp 847

Oy	1265	TTCAAACTCCGAGAAAGGGGAAAGCCGCTGTTTGCTGCTTGAAGGCTTATGTAAGC	1206
Db	2	PheGlyLeuGlnHisArgGlyAlaProGlySerGlyProSerGlyHisValMet	21
Oy	1205	AAATGAGGCAAAAGGCGCGGCGCCAGCCCGCGCGCGAGTCT	1158
Db	22	AlaSerGlnArgAlaArgProAlaPro--AlaSerProGlyProProAlaAlaIaGlyS	41
Oy	1157	CAAAACAACACTGCTCCCTGCAACCCAGTCTTGCTCATGCTGAAGTGGC	1107
Db	41	erCyS**AlaCysSer--AspProSerIleuArgArgSerIleuCySrrProPro	60
Oy	1106	CCTGTGCGCCCTGACCCCTGGGCTGGC	1077
Db	60	hrSerAlaPro-----AlaGlyAlaLeuValLeuValProAlaIaSerArgIleu	77
Oy	1076	GAGTGTCCCTGTGCGGAGTCAAGATAGACTCCCGAGTACAGATCAACCCAGCTCT	1017
Db	77	euValGlyGlyAlaIaArg--GlyLeuLeuPheProLeuThrIleuGlyHisAlaSerI	96
Oy	1016	GGAGCATC---CCCGCGCAAGTCTCTCTGCAACCTAAGCTGAAGAACTCCACGAT	960
Db	96	yArgRPhHisProArgAlaHisSer-----	104
Oy	959	GGATTGTCCCAACGACGCGCCCAACCGCTGCTGTG	925
Db	105	-----SerValProProProGlyValHisArgProGlyThrGluProGlyLeuS	121
Oy	924	-----GCATGTGACAGACAGACAGAGGGGCTTATAGTACATTCACACATTTGAACAC	870
Db	121	erArgAlaLeuSerIleArgMetThrGlyAlaLeuVal-----	133
Oy	869	AGTGTGCGGGGTGCCACG-----AACCTCCAGGAGGGGACACA	828
Db	134	-----TrpAspProProArgProGlnProGlySerAlaGlyHisProArgHisAlaHisI	152
Oy	827	GCCCCCAGTGGGGAGACTAGCCTGAG-----CTTGTACACGCCCAAGGT---	781
Db	152	eugGlyLeuTyrTyrSerAlaHisGlnGlnCysArgValAlaIaPheGlyProGlyValAla	172
Oy	780	-----TGAGAGGACGACTATACCCCATGATCTCCGAGACTAGA-----	742
Db	172	IaCysThrPheAlaArgGlnHisIleuValSerLeuProAlaValAlaIaTrpAspTrpLeu*	192
Oy	741	-----GCCACGATCCCATAGCTAGTAGCTGTAACTCACTATTGTAACATTGGCACTT	690
Db	192	**GlyProSerAlaSerProSerSerArgProProIuys-----ArgAlaTrp-Ile	208
Oy	689	ATTGCACGTTGTCTCTGTGCATCATCTGTCTGTCTGGAGTGTAACTTTGTCTGCAGGGGT	630
Db	209	CysAlaIaArgProSerProAlaThrGlnIlaArgTrp-----	220
Oy	629	TCCCAAGGTGACATGCAAGTGTCCAGTGCATCTCCCTTCACAGGCAAGCCCACTGTG	570
Db	221	-----ThrValaIaAlaIaAlaIaSerSerPheLeuSerTrpMetGlyIaHisn	237
Oy	569	CTG-----AGGATAGTCAAC-----TGCTACGCGAGGCCCTCA	537
Db	238	ValAlaIaTrpArgSerGlyAlaProArgValaIaAlaIaAlaProTrpTrpSer***ProPro	257
Oy	536	GATAGGTACAGACGAGCCTTCACATATGTGTCTTGTGGATCAGGAGCAACACTTGCT	477
Db	258	**GlnGlnCysMetGly-----AlaGlyLeuAlaGlyValProGluValIleuIa	274
Oy	476	CCATCAGACTTTGAAAAAGACCACTGCCGACCTGGGGGGGACAGAGTAAAGTTACAGG	417
Db	275	ProAlaProAlaGlnGlyValIaTrpSerPro-GlyGlyGly-----SerAlaThrTh	291
Oy	416	GCTGATGTCTCTCTTCTGAGGGAAGACCATTC-----	380
Db	291	rProAspArgProLeuGlyGlyValHisValLeuValLeuThrSerArgProArgCysAl	311

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QY 379 -----CTAATT 372
Db 311 aThrLeuArgProAlaArgArgProSerTrpSerSerCysArgAsnSerAlaProGlyPr 311
QY 371 GACTGCCTTGAAGACACCGTAATCACTCTCTCT----- 341
||| |:: |||||:::
Db 331 cThrlaSerArgCysAlaAlaProProLeuAlaAlaAlaProProSerThrThrGlyValLeuLe 351
340 ---CATCACCTCAGCACCCCTCTGACTTCGGAT----- 310
---|||::: |||||:::
Db 351 uTyrlHis-ThrAlaIyslGlyMetLeuCysAlaAspThrCysAlaGlyProLeuAlaArgA 371
369 ----GGGGGATCACTATCTATCAACCTCCAGAGGCTCCGCC-----ATCTCCC 264
QY 371 laSerSer***ServAlGluthrAlaSerSerMetGlyProDlyValCysGlnValAlaAla 391
263 TTGGAAGGGCTTCTCC-----ACTGGCTCAGCTGTCCAGG 228
||| |:: |||||:::
Db 331 roGlyArgThrGlyPro**AAcCysValCysArgAlaAlaAlaGly-HisLeuAlaVal 410
227 TGGTGCTGGTTGGTGACCAACMAAGCCCCGACACTGGG----- 1922
||||| ||| |||||
Db 411 MetValGIyTrrPThrProSerArgGlyGlyThrGlyAlaArgCysValAlaGlyThrThr 430
191 -----CATGCGCTCT----- 183
431 AlaaArgAlaAlaHlaGlyArgAlaLeuSerGlnLeuAlaGluArgGluAsnMetSerArg 450
QY 182 ---CACAGACATCCACAGCGCTCAGCCAGGTGAACACTS-----AAAGAGGACAGCTCC 1322
::: ||| ||| |||||
Db 451 phe***GlnLeuProProThr***ProValSerThrLeuProThrThrGlyLeuSerSer 470
131 CGTGCTGGTAGGATGGCCAGCACGCGTAAGTCT----- 1000
||| ||| |||||
Db 471 HisThrTrpArg**GlySerGlnGlyAlaMetSerTrpLeuGlyArg**AlaSerPro 490
99 -----TCTCGGGGAGAGTGTCGTCTGGGATATACAGTGTACTCG 61
491 LeuthrProProThrProProSerTrpArgMetValAlaSerSerThrGluTrpProSer 510

RESULT 5
US-10-057-487-6
; Sequence 6, Application US/10057487
; Publication No. US20030105313A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Aggrucanase Molecules
; FILE REFERENCE: 08702.0073
; CURRENT APPLICATION NUMBER: US/10/057,487
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 60/241,469
; PRIOR FILING DATE: 2000-10-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 738
; TYPE: PRT
; ORGANISM: homo sapien
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (43)..(43)
; OTHER INFORMATION: unknown amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (192)..(192)
; OTHER INFORMATION: unknown amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (255)..(255)
; OTHER INFORMATION: unknown amino acid
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (258)..(258)

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Db      491 LeuThrProProThrProProSerTrpArgMetValValSerSerThrGluTrpProSer 510
RESULT 6
US-10-213-509-5
; Sequence 5, Application US/10213509
; Publication No. US20030054485A1
; GENERAL INFORMATION:
; APPLICANT: Weise, Joseph
; APPLICANT: Scott, Matthew
; TITLE OF INVENTION: JELLY BELLY GENES AND THEIR USES
; FILE REFERENCE: STAN-232
; CURRENT APPLICATION NUMBER: US/10/213,509
; PRIOR FILING DATE: 2002-08-06
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 4123
; TYPE: PRT
; ORGANISM: H. sapiens
US-10-213-509-5

Alignment Scores:
Pred. No.:      0 0167      Length:      4123
Score:          134.00      Matches:      110
Percent Similarity: 33.41%      Conservative: 36
Best Local Similarity: 25.17%      Mismatches: 134
Query Match:      5.23%      Indels: 157
                        Gaps: 26
                        15

US-09-989-919-15 (1-1397) x US-10-213-509-5 (1-4123)
QY      1249 GGGGAAGCCTGGTTTGGCTGCTTGAAGCCTTTCATTGAAGCAATGAGCAGAAAGG 1190
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1799 G1G1AlAlAlLeuProSerG1SerLeuValLeuSerLeu-----AapArg 1813
QY      1189 CCCCCCCCCCCCCCCCCCGCCAGAGTCTGGCTCAACACACACTGCTCCCTGACCCCACT 1130
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1814 ProAlAlAlHisProProProProSer-GlySerAspCysTrpProSerLeuSerGlyLe 1833
QY      1129 CTGGCCATGCTGAGAGTGTGACACTCTGCGCCCTGACCCCTGGAGCTGGCTGG-----G 1076
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1833 u-TrpLeuValLeu-----LeuValThrLeuGlyGlnValProGlyProLeuTrpLeuProG 1852
QY      1075 AGTGTCCC-----CTGTCCGAGAGTCAAGATAGCCTCCCAAGTACAGATCACCAC 1022
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1852 LuHisProValValLeuProGluLeuGlnInProProProLeuArgProArgSerProV 1872
QY      1021 ATCCTGAGCATCCCCCGCCCAAGTCTCTCTCCAGACT-----AAG 980
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1872 alProTrp-HisProProGlnGlyThrGlnThrGluProCysGluGlyCysGluHisGln 1891
QY      979 CTGAGAGAAACATCCCAAGATGATGCCCAAGACCCCAAGCCCGCTGCTGGCATG 920
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1892 GlyGlnValHisArgValGlyGluArgTrpHisGlyGlyPro-----CysArgVal 1908
QY      919 TGCAGCAGCAGCAGCAGGGGCTTGAAGTCTCACTATTCACACTATTAACACAGATGATGGG 860
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1909 CysGln-CysLeuHisAsnLeuThrAlaHisCysSerProTrp----- 1922
QY      859 CTGCCCCAGGAAACCGTCCCAAGGAGGGGACAGCCCCCAAGTGGGAGAGTACGCTAGCT 800
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1923 -CysPro-----Le 1925
QY      799 TGCTTAAGCCCAAGGTTGAGAGGCAAGTACATACCCCATGATTCGTGAGTACAGAGC 740
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1925 uGlySerCysProGlnGlyTrp-----ValLeuValGluGlyThrGlyG1 1940
QY      739 CAGCAGTCCCATAGCTAGGCTGTGTAATCATCATTTTAACATTTGGCATTTATTCACGTT 680
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1940 uSer----- 1941

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QY      679 TGTCTGTGCATCATCTGTCTGTCTGGAGTGTTAAGTCTTGTCTGCAGGGGTTCCAGGTGA 620
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1942 -----CysCysHisCys-----AlaLeuProGlyG1 1950
QY      619 CATGAGTGTCTGCCATGCAAGTACTCTCT-----CCACAGGCAAGCCCAAGCTGC 569
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1950 uAsnGlnThrValGlnProMetAlaThrProAlaAlaAlaProAlaProSerProGln-I 1970
QY      568 TGAGG-----ATATCATCTGTGTGAGCCCAAGCCCTCATAGTACGTACAGCAGAGCCTTC 515
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      1970 LeArgPheProLeuAlaThrTyThrLeuProProSerGlyGlySerCysArgProLeuS 1990
QY      514 AC-----ATATGT-----G 506
Db      1990 eSerProThrProAlaCysLeuSerLeuLeuHisProAspProCysTySerProLeuG 2010
QY      505 GTCTTGTGGATCAGGAGC-----CACTTGCTTCATCCAGTCTTGAAGAAAGACC 455
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2010 lLeuAlaGlyLeuAlaGlySerLeuHisAlaSerSerGlnGlnLeuGluHisProT 2030
QY      454 AG-----CTGCCGACCTGGGGGAGAGGTGAGGTGAGGTACAGAGCTG 413
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2030 hArgAlaAlaLeuLeuGlyAlaProThrGlnGlyProSerProGlnGlyTrpHisArg 2050
QY      412 GA-----TGTTCTCTTCTGTGAGG-----CAAGACCATTCCTCAATTGACTGCTTG 362
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2050 lYGlAspAlaLeuThrAlaLeuSerTrpHisThrArgProHisGlyLeuGlnLeuAspLeuG 2070
QY      361 AA-----GACACGTATACCT 347
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2070 InProArgAsnLeuThrGlyLeuValProGluThrGlySerSerAsnAlaTyArgAlaS 2090
QY      346 CTCTCTCATCACTCAGACACCCCTGTGACTCCGATGGGGAGTACATTCATCAACT 287
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2090 eSerPheSerLeuGlnPheSer-----SerAsnGlyLeuHisTrp---HisAspT 2106
QY      286 CCAGAGAGTCTGCATCTCCCTTGAAGGCTTCTCCCACTGGCTCACTGTC----- 231
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2106 yArgAspLeuLeuPro-----GlylLeuProLeuProLysValSerProA 2122
QY      230 -----AGTGTGCT-----GGTGTGTGC 212
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2122 lAglnGlyArgTrpGlyGlnGlnProThrMetProPheCysGlyPheHisSerLeuCysP 2142
QY      211 CACAAAGGCCGACACT-----GGGCATGGCTCTCAC 180
      |||||:::|||||:::|||||:::|||||:::|||||:::|||||:::
Db      2142 roGlnGlyProSerSerValProGlnGlyHisGlyLeuHis 2155

RESULT 7
US-10-140-472-531
; Sequence 531, Application US/10140472
; Publication No. US20030138888A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME

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; FILE REFERENCE: P3330R.C168
; CURRENT APPLICATION NUMBER: US/10/140,472
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-472-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80
Percent Similarity: 26.21% Conservative: 12
Best Local Similarity: 22.79% Mismatches: 79
Query Match: 5.28% Indels: 180
DB: Gaps: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-140-472-531 (1-1150)

OY 3 TGCTGACCTG-----ACCGA 20
Db 884 CysCysThrCysCysCysThrGlyThrAlaAlaGlyThrCysThrAlaThrThrAla 903
OY 21 GGGGACAGATCTGGAGAACTCCAGGCAAGAGACAGTACGAGTATCCAG 80
Db 904 AAlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThrAlaCysAlaThrThrGly 923
OY 81 ACAGCACCATCCCCAGAGAACTACCCGCTGGCCATCTTACACCAAGACGAGACTGCC 140
Db 924 AAlaAlaAlaThrGlyThrGlyThrGlyAlaAlaCysGlyThrThrThrThrGlyAlaAla 943
OY 141 TCCTTTCAAGTGTTCACACTGGCTGAGCTG-----GATG 176
Db 944 AAlaAlaGlyCysThrAlaCysAla-GlyCysThrThrCysCysAlaGlyCysAlaGlyCy 963
OY 177 TCTGTGAGCGCATGCCAGTGTGGGCTTTGTGTGTCACCAACGACACCTGGACAG 236
Db 963 s-CysAlaAlaAlaAlaAlaGlyCysAlaAlaCysThrGlyThrThrGlyThrThrThrG 983
OY 237 GTGAGCCAGTGGAGAGAGCCCTTCCAGAGGAGATGGACAGACCTCTGGAGTTGATG 296
Db 983 LyGlyCysAlaAlaGlyAlaCys----- 990
OY 237 ATATGATCCCCCATTCGGAAGTCAGAGGGGGTCTGAGTGATGAGAGAGATTAAGT 356
Db 991 -----GlyGly-----ThrC 994
OY 357 GTCTTCAGAGCAGTCAAAATTAGGAGAAATGCTTGGCTCCAGAAAGAAATCCAGC 416
Db 994 ys----- 994
OY 417 CCTGTACCTTCACCTCTGCCCCAGTCCGAGCTGAGCTTTTTCAGAGCTGATG 476
Db 994 ----- 994
OY 477 AGCCAAAGTGTCCTCGATCCCAACAGACCAATATGTGAAGCCCTGGCTGACTATC 536
Db 995 -----CysThrGlyAlaThrGlyThrAlaC 1003
OY 537 TGAGGAGCTCGGTGACAGCTGACTATCTCTGAGAGCTGG-----CTTGCTGG 587
Db 1003 ysAlaAlaGlyCysThrThrGlyAlaThrThrGlyAlaAlaAlaAlaThrThrCysAlaCys- 1022
OY 588 GAGGAGTGACTGC-----ACTGGACAGCTGACGTTCACCTGGGAACCCCTGCA 638
Db 1023 ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
OY 639 GACAAAGCTAAATCCCAAGACAGACAGATGTGACAGCAACAGTGCATTAATGCCAA 698
Db 1041 -----ThrThrCysAlaGlyAla----- 1046

```

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QY      699  TGGTAAATGTCAGTTTACACAGCTAGCTATGGAGTCTGGCTCCTAGTCCAGAAATCA 758
Db      1046  -----
QY      759  TGGGGATGACTGCTCTCCACCCTGTGGAGCTGTAAAGCAAGCTCAGGCTACTCTCCC 818
Db      1047  -----
QY      819  ACTGGGGCTGTGGCCCCCTTCCTCGGAGAGGTTCCGTTGGGAGCCCAATCACTGTGTTCAAT 878
Db      1058  ThrGlyGlyCysThrGly-----Thr-Cys----- 1066
QY      879  AGTGGAAATGTAGCTAAAGCCCTGCTGCTGC-----TCTGCACATGCCACAGACAG 932
Db      1066  -----CysCysCysAlaThrCysCysThrCys-AlaThrC 1077
QY      933  GCGGTGGGCGCTGCTGGGGAGCA 955
Db      1077  1yThrGlyGlyCysThrGlyThr 1084

RESULT 8
US-10-141-761-531
; Sequence 531, Application US/10141761
; Publication No. US20030148432A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austlin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zhenli
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330P1C198
; CURRENT APPLICATION NUMBER: US/10/141,761
; PRIOR FILING DATE: 2002-05-08
; Prior Application removed - See Palm or File wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-141-761-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80
Percent Similarity: 26.21% Conservative: 12
Best local Similarity: 22.79% Mismatches: 79
Query Match: 5.28% Indels: 180
DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-141-761-531 (1-1150)
QY      3  TGTCTGACCTGT-----ACCGGA 20
Db      884  CysCysThrCysCysCysThrGlyThrAlaAlaGlyThrCysThrAlaThrThrThrAla 903
QY      21  GCGGCAATATCTGCAAGAACTCCAGCAGACAGACAGTACGAGTACCAAGTATGCCAG 80
Db      904  AlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThrAlaCysAlaThrThrGly 923

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QY      81 ACAGACCATCCCCAGGAAGACTACCGCTGCGCCATCTTACCAACAGGAGCTGCC 140
      |||
      |||
      |||
Db      924 AlAlaAlaAlaThrGlyThrGlyAlaAlaCysGlyThrThrThrThrGlyAlaAla 943
      |||
      |||
      |||
QY      141 TCCTTCAGCTTCAACCTGCGAGCTGT-----GGATG 176
      |||
      |||
      |||
Db      944 AlAlaGlyCysThrAlaCysAla-GlyCysThrThrCysCysAlaGlyCysAlaGlyCys 963
      |||
      |||
      |||
QY      177 TCTGTAGAGCCATGCCAGTGTGCGGCTTTGTGTGACCAACAGACCACTGAGCAG 236
      |||
      |||
      |||
Db      963 s-CysAlaAlaAlaAlaGlyCysAlaAlaCysThrGlyThrThrGlyThrThrThrC 983
      |||
      |||
      |||
QY      237 GTAGAGCAGTGGAGAAAGCCCTTCCAGGAGATGAGAGACCTCTGTGAGGTGATAG 296
      |||
      |||
      |||
Db      983 lYglyCysAlaAlaGlyAlaCys----- 990
      |||
      |||
      |||
QY      297 ATAGTATCCCCATCGGAAGTCAAGAGGGGTGCTGAGTGTATGAGAGATATACGT 356
      |||
      |||
      |||
Db      991 -----GlyGly-----ThrC 994
      |||
      |||
      |||
QY      357 GTCTTCAAGCAGTCAATATTAGGAGATGATGCTTGTCCACAGAAAGAAATCCAGC 416
      |||
      |||
      |||
Db      994 yS----- 994
      |||
      |||
      |||
QY      417 CCTGTACCTCTCACTCTGCCCCCAGTGGCAGCTGTCTTTTCAAGACTGATGG 476
      |||
      |||
      |||
Db      994 ----- 994
      |||
      |||
      |||
QY      477 AGCCAAGTGTCCCTGATCCCAACAGACCATATGTGAAGGCTGTGCTGACCTATC 536
      |||
      |||
      |||
Db      995 -----CysThrGlyAlaThrGlyThrGlyThrLac 1003
      |||
      |||
      |||
QY      537 TGAGGCTCGGCTGACCACTGACTATCTCAGAGCTGGG-----CTTGCCTGTG 587
      |||
      |||
      |||
Db      1003 ySaAlaAlaGlyCysThrThrGlyAlaThrThrGlyAlaAlaAlaThrThrCysAlaCys- 1022
      |||
      |||
      |||
QY      588 GAGGAGTGACTTGC-----ACTGGAGCACTGTCATGTCACTGGGAAACCCCTGCA 638
      |||
      |||
      |||
Db      1023 ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
      |||
      |||
      |||
QY      639 GACAAAGCTAACATCCACAGACAGACATGTGACCAAGAGCAAGCTGCAATATGCCAA 698
      |||
      |||
      |||
Db      1041 -----ThrThrCysAlaGlyAla-- 1046
      |||
      |||
      |||
QY      699 TGTTAAATGAGATTACACAGCTAGCTATGGGACTGTGCTGCTCTTAAGTCAGGAATCA 758
      |||
      |||
      |||
Db      1046 ----- 1046
      |||
      |||
      |||
QY      759 TGGGGTATGATGCTCTCCCAACCTGTGGGCTGTAGCAAGCTCAGGCTAGCTCCC 818
      |||
      |||
      |||
Db      1047 -----AlaAlaCysCysCysAlaAlaGlyGlyAlaAla 1057
      |||
      |||
      |||
QY      819 ACTGGGGGCTGTGCCCCCTCCCTGGAGGTTCCGTGGGAGCCCATCATCTGTTCAT 878
      |||
      |||
      |||
Db      1058 ThrGlyGlyCysThrGly-----ThrCys----- 1065
      |||
      |||
      |||
QY      879 AGTGTGAGATGTAGTAAAGCCCTGTGCTGTC-----TGCTGCAATGCCACAGAG 932
      |||
      |||
      |||
Db      1066 -----CysCysCysAlaThrCysCysThrCys-AlaThrG 1077
      |||
      |||
      |||
QY      933 GCGGTGGGGCTGCGTGGGAGACA 955
      |||
      |||
      |||
Db      1077 lYThrGlyGlyCysThrGlyThr 1084
      |||
      |||
      |||

```

```

; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geo. Wei-Qiang
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C248
; CURRENT APPLICATION NUMBER: US/10/142,885
; CURRENT FILING DATE: 2002-05-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-142-885-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80
Percent Similarity: 26.218 Conservative: 12
Best Local Similarity: 22.79% Mismatches: 79
Query Match: 5.28% Indels: 180
DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-142-885-531 (1-1150)

QY      3 TCGCTGACCTGT-----ACCGGA 20
      |||
      |||
      |||
Db      884 CysCysThrCysCysCysThrGlyThrAlaAlaGlyThrCysThrAlaThrThrAlaAla 903
      |||
      |||
      |||
QY      21 GCGGAGATGTGCGCAAACTCCAGGCAAGCAGTACCGAGTACCACTGATCCAG 80
      |||
      |||
      |||
Db      904 AlAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThrAlaCysAlaThrThrGly 923
      |||
      |||
      |||
QY      81 ACAGACCATCCCCAGGAAGACTACCGCTGCGCCATCTTACCAACAGGAGCTGCC 140
      |||
      |||
      |||
Db      924 AlAlaAlaAlaThrGlyThrGlyAlaAlaCysGlyThrThrThrThrGlyAlaAla 943
      |||
      |||
      |||
QY      141 TCCTTCAGTTCACCTGCGAGCTGT-----GGATG 176
      |||
      |||
      |||
Db      944 AlAlaGlyCysThrAlaCysAla-GlyCysThrThrCysCysAlaGlyCysAlaGlyCys 963
      |||
      |||
      |||
QY      177 TCTGTAGAGCCATGCCAGTGTGCGGCTTTGTGTGACCAACAGACCACTGAGCAG 236
      |||
      |||
      |||
Db      963 s-CysAlaAlaAlaAlaGlyCysAlaAlaCysThrGlyThrThrGlyThrThrThrC 983
      |||
      |||
      |||
QY      237 GTAGAGCAGTGGAGAAAGCCCTTCCAGGAGATGAGAGACCTCTGTGAGGTGATAG 296
      |||
      |||
      |||
Db      983 lYglyCysAlaAlaGlyAlaCys----- 990
      |||
      |||
      |||
QY      297 ATAGTATCCCCATCGGAAGTCAAGAGGGGTGCTGAGTGTATGAGAGATATACGT 356
      |||
      |||
      |||
Db      991 -----GlyGly-----ThrC 994
      |||
      |||
      |||
QY      357 GTCTTCAAGCAGTCAATATTAGGAGATGATGCTTGTCCACAGAAAGAAATCCAGC 416
      |||
      |||
      |||
Db      994 yS----- 994
      |||
      |||
      |||
QY      417 CCTGTACCTCTCACTCTGCCCCCAGTGGCAGCTGTCTTTTCAAGACTGATGG 476
      |||
      |||
      |||
Db      994 ----- 994
      |||
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QY      477 AGCCAAGTGTCCCTGATCCCAACAGACCATATGTGAAGGCTGTGCTGACCTATC 536
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RESULT 9
US-10-142-885-531
; Sequence 531, Application US/10142885
; Publication No. US20030157604A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Deonoyers, Luc

```

```

Db      995  -----CysThrGlyAlaThrGlyThraLac 1003
QY      537  TGAGGCTGGCTGACCAAGCTGACTAATCTCAGACGCTGGG-----CTTGCCCTG 587
Db      1003  yalalalaglyCysThrThrGlyAlaThrThrGlyAlaThrThrCysAlaCys- 1022
QY      588  GAGGAGTGAATTGC-----ACTGGCAGCATGTCATGTCACCTGGGAACCCCTGCA 638
Db      1023  ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
QY      639  GACAAAGCTAACATCCACAGACAGATGTGACGAGCAAACTGCAATTAATGCCAA 698
Db      1041  -----ThrThrCysAlaGlyAla----- 1046
QY      699  TGTAAATGTGAGTTTACACAGCTAGCTATGGGACTGCTGCTCTAGTCCAGAAATCA 758
Db      1046  ----- 1046
QY      759  TGGGGGTATGACTGCTCTCCAACTGTGGGCTGTAAAGCACTCAGGCTAGTCTCCC 818
Db      1047  -----AlaAlaCysCysAlaAlaAlaGlyGlyAlaAla 1057
QY      819  ACTGGGGCTGTGCCCCCTCCCTGGAGCGGTTCCGTGGGAGCCCACTCACTGTTCAT 878
Db      1058  ThrGlyGlyCysThrGly-----Thr-Cys----- 1065
QY      879  AGCTGAGATGTAGCTAAAGCCCTGCTGCTGC-----TGCTGACATGCCACAGCAG 932
Db      1066  -----CysCysCysAlaThrCysCysThrCys-AlaThrG 1077
QY      933  GCGGTGGGGCTGCTGGGGGACA 955
Db      1077  LyThrGlyGlyCysThrGlyThr 1084

RESULT 10
US-10-158-790-531
; Sequence 531, Application US/10158790
; Publication No. US20030180879A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geriltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumaes, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C448
; CURRENT APPLICATION NUMBER: US/10/158,790
; CURRENT FILING DATE: 2002-05-30
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-158-790-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80

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Percent Similarity: 26.21%
Best Local Similarity: 22.79%
Query Match: 5.28%
DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-158-790-531 (1-1150)

QY      3  TCGTCACCTGT-----ACCGCA 20
Db      884  CysCysThrCysCysCysThrGlyThrAlaAlaGlyThrCysThrAlaThrThrThrAla 903
QY      21  GCGGCACTATCTGCAGAACTCCACGGCAGACAGCATCCAGTACCACTGATCCAG 80
Db      904  AlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThrAlaCysAlaThrThrGly 923
QY      81  ACAGACATCCCCAGAGAACTACCGCTGGCGCATCTTACACACCGGAGGCTGCC 140
Db      924  AlaAlaAlaThrGlyThrGlyThrGlyAlaAlaCysGlyThrThrThrThrThrAlaAla 943
QY      141  TCGTTTCACTGTTCACTGCTGAGGCTGT-----GGATG 176
Db      944  AlaAlaGlyCysThrAlaCysAla-GlyCysThrThrCysCysAlaGlyCysAlaGlyCys 963
QY      177  TCTTGAGAGCATGCCAGTGTCCGGCTTTGTGTGTCACCAACAGACCACTGAGCAG 236
Db      963  s-CysAlaAlaAlaAlaGlyCysAlaAlaCysThrGlyThrThrGlyThrThrThrThrG 983
QY      237  GTGAGCCATGGGAGAGAGCCCTTCCAGGAGATGGCAGACCTCTCTGAGAGTTGATG 296
Db      983  LyGlyCysAlaAlaGlyAlaCys----- 990
QY      297  ATAGTATCCCATCGAATGCAGAGGGGTGTGAGGTGATGAGAGAGTATACGT 356
Db      991  -----GlyGly-----Thrc 994
QY      357  GTCTTCAGAGCATCAATTTAGGAGAAATGTCTTCCCTCCAGAAAGAAATCCACAG 416
Db      994  y----- 994
QY      417  CCTGTACTCTACCTCTGCCCCCAGGTGGCAGCTGCTTTTTCAGACTGATAG 476
Db      994  ----- 994
QY      477  AGCCAAGTGTCCCTGATCCCAACAAGACCATATGTGAAGCCCTGCTGACTATTC 536
Db      995  -----CysThrGlyAlaThrGlyThraLac 1003
QY      537  TGAGGCTCGCTGACCAAGCTGACTAATCTCAGACGCTGG-----CTTGCCCTG 587
Db      1003  yalalalaglyCysThrThrGlyAlaThrThrGlyAlaAlaAlaThrThrCysAlaCys- 1022
QY      588  GAGGAGTGAATTGC-----ACTGGCAGCATGTCATGTCACCTGGGAACCCCTGCA 638
Db      1023  ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
QY      639  GACAAAGCTAACATCCACAGACAGATGTGACGAGCAAACTGCAATTAATGCCAA 698
Db      1041  -----ThrThrCysAlaGlyAla----- 1046
QY      699  TGTAAATGTGAGTTTACACAGCTAGCTATGGGACTGCTGCTCTAGTCCAGAAATCA 758
Db      1046  ----- 1046
QY      759  TGGGGGTATGACTGCTCTCCAACTGTGGGCTGTAAAGCACTCAGGCTAGTCTCCC 818
Db      1047  -----AlaAlaCysCysAlaAlaAlaGlyGlyAlaAla 1057
QY      819  ACTGGGGCTGTGCCCCCTCCCTGGAGCGGTTCCGTGGGAGCCCACTCACTGTTTCAT 878
Db      1058  ThrGlyGlyCysThrGly-----Thr-Cys----- 1065
QY      879  AGCTGAGATGTAGCTAAAGCCCTGCTGCTGC-----TGCTGACATGCCACAGCAG 932

```

Db 1066 -----CysCysCysAlaThrCysCysThrCys-AlaThrG 1077
 QY 933 GCGGTGGGGCTGCTGGGAGCA 955
 Db 1077 LyrhrglyGlyCysThrGlyThr 1084

RESULT 11

US-10-137-871-531
 ; Sequence 531, Application US/10137871
 ; Publication No. US20030207350A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Geriltsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Matanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P330R1C153
 ; CURRENT APPLICATION NUMBER: US/10/137, 871
 ; CURRENT FILING DATE: 2002-05-03
 ; Prior Application removed - See Palm or File Wrapper
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 531
 ; LENGTH: 1150
 ; TYPE: DNA
 ; ORGANISM: Homo Sapien
 US-10-137-871-531

Alignment Scores:
 Pred. No.: 0.0134 Length: 1150
 Score: 133.50 Matches: 80
 Percent Similarity: 26.21% Conservative: 12
 Best Local Similarity: 22.79% Mismatches: 79
 Query Match: 5.28% Indels: 180
 DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-137-871-531 (1-1150)

QY 3 TCCTGCACCTGT-----ACCGGA 20
 Db 884 CysCysThrCysCysCysThrGlyThrAlaAlaGlyThrCysThrAlaThrThrThrAla 903
 QY 21 GCGGGCAGTATCTGCAGAACTCCAGGGCAGACAGACAGACAGATGATCCAG 80
 Db 904 AlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThrAlaCysAlaThrThrGly 923
 QY 81 ACAGACACATCCCCAGAAAGTACTACCGCTGCTGCGCATCTTACACACAGGAGCTGCC 140
 Db 924 AlaAlaAlaThrGlyThrGlyThrGlyAlaAlaCysGlyThrThrThrThrGlyAlaAla 943
 QY 141 TCCTTACGTGTACCTGCTGAGCTGT-----GGATG 176
 Db 944 AlaAlaGlyCysThrAlaCysAlaAlaCysThrThrCysCysAlaGlyCysAlaGlyCys 963
 QY 177 TCCTGAGAGCAGCAGAGTGTGCGGCTTGTGTACCAACAGACAGACCTGAGCAG 236
 Db 963 s-CysAlaAlaAlaAlaGlyCysAlaAlaCysThrGlyThrThrThrThrThrThr 983
 QY 237 GTGAGCCAGTGGAGAACCTTCCAAAGGAGATGAGGAGACCTCTGTGAGGTTGATAG 296

Db 983 LyrhGlyCysAlaAlaGlyAlaCys----- 990
 QY 297 ATAGTATCCCCATCGAAGTCAAGGGGCTGTGAGGTATGAGAGAGTATACGT 356
 Db 991 -----GlyGly-----Thrc 994
 QY 357 GTCTTCAGAGCAGTCAATTAGGAGATGTCTTCCCTCCAGAAAGAAACATCCACG 416
 Db 994 ys----- 994
 QY 417 CCTGTACCTTCACCTGTGCCCCCAGGTGGCAGCTGTCTTTTCAAGCTGATGG 476
 Db 994 ----- 994
 QY 477 AGCCAGTGTCTCTGATCCCAACAGACAGATATGTGAGGCGCTGCTGACCTATTC 536
 Db 995 -----CysThrGlyAlaThrGlyThrAlaC 1003
 QY 537 TGAGGCTGCGCTGACACAGCTGATCTATCTCAGACAGCTGG-----CTTGCTGTG 587
 Db 1003 yAlaAlaGlyCysThrThrGlyAlaThrThrGlyAlaAlaAlaAlaThrThrCysAlaCys- 1022
 QY 588 GAGGAGTGACTTGC-----ACTGGCAGCATGCAATGTCACCTGGAAACCTGCA 638
 Db 1023 ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
 QY 639 GACAAAGTAAATCCACAGACAGACAGATGTGACCAAAAGTCAATATGCAAA 698
 Db 1041 -----ThrThrCysAlaGlyAla----- 1046
 QY 699 TGTAAATGTGAGTTTACACAGCTGATGAGGAGCTGCTGCTCTAGTCCAGAAATCA 758
 Db 1046 ----- 1046
 QY 759 TGGGGTATGATCTGCTCTTCAACCTGTGGGTGTAAAGCACTGAGGTATGCTCCC 818
 Db 1047 -----AlaAlaCysCysCysAlaAlaGlyAlaAla 1057
 QY 819 ACTGGGGCTGTGCCCCCTGCGAGCGGTCCGTGGAGCCCATCACTGTGTCAAT 878
 Db 1058 ThrGlyGlyCysThrGly-----Thr-Cys----- 1065
 QY 879 AGTGTGAGATGTAGCTAAAGCCCTGCTGCTGC-----TGTGCAATGCAACAGCAG 932
 Db 1066 -----CysCysCysAlaThrCysCysThrCys-AlaThrG 1077
 QY 933 GCGGTGGGGCTGCGGAGCA 955
 Db 1077 LyrhrglyGlyCysThrGlyThr 1084

RESULT 12

US-10-140-805-531
 ; Sequence 531, Application US/10140805
 ; Publication No. US20030207417A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Geriltsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Matanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

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; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C176
; CURRENT APPLICATION NUMBER: US/10/140,805
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-805-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80
Percent Similarity: 26.21% Conservative: 12
Best Local Similarity: 22.79% Mismatches: 79
Query Match: 5.28% Indels: 180
DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-140-805-531 (1-1150)

QY 3 TCGTGACCTGT-----ACCGA 20
DB 884 CysCysThrCysCysCysThrGlyThraAlaGlyThrCysThraAlaThrThrThra 903
QY 21 GCGGGAGATATCTGAGAACTCCAGGAGAGAGAGATACCGAGTACAGTATCCAG 80
DB 904 AlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThraAlaCysAlaThrThrgly 923
QY 81 ACAGACATCCGCCAGAACTACCGCTGCTGCCATCTACACAGGAGAGCTGCC 140
DB 924 AlaAlaAlaThrGlyThrglyThrglyThraAlaCysGlyThrThrThrThraAla 943
QY 141 TCGTTCACTGTTCAACTGCTGAGGCTGT-----GGAG 176
DB 944 AlaAlaGlyCysThraAlaCysAla-glyCysThrThrCysCysAlaGlyCysAlaGlyCys 963
QY 177 TCGTGAGAGCATGCCAGTGTGCGGCTTTGTGTCACCAACAGACACTGAGAG 236
DB 963 s-CysAlaAlaAlaAlaGlyCysAlaAlaCysThrglyThrThrglyThrThrg 983
QY 237 GTGAGCAGTGGAGAGAGCTTCCAAAGGAGATGAGAGAGCTCTCTGAGGTTGATAG 296
DB 983 lylGlyCysAlaAlaGlyAlaCys----- 990
QY 297 ATAGTATCCCCCATCGAAGTCAAGGGGGTGTGATGATGAGAGAGATATACGT 356
DB 991 -----GlyGly-----ThrC 994
QY 357 GTCTTCAAGGACATCAATTTAGGAGAAATGTCTTCCCTCCAGAAAGAAACATCCAGC 416
DB 994 ys----- 994
QY 417 CCTGTAACTCTCAGCTCTGCCCCCAGGTGAGAGCTGTCTTTTCAAGACTGATG 476
DB 994 ----- 994
QY 477 AGCGAAGTGTCTTATCCCAACCAACCAATATGTGAGAGGCTCTGCTGAGCTATTC 536
DB 995 -----CysThrglyAlaThrglyThraAlaC 1003
QY 537 TGAGGGCTGGGCTGACGACTATCTCAGACAGTGG-----CTTGCTGTG 587
DB 1003 ysAlaAlaGlyCysThrThrglyAlaThrThrglyAlaAlaAlaThrThrCysAlaCys- 1022
QY 588 GAGGAGTACTTGC-----ACTGGACAGTCACTGATCACTGGGAACTCCCTGA 638
DB 1023 ThrGlyCysThrCysAlaCysThrThrglyAlaThraAlaCys-----GlyThrThraAla 1040
QY 639 GACAAAGTAAATCCACAGACAGAGATGTGAACGAAACGTCATATATGTCMAA 698
DB 1041 -----ThrThrCysAlaGlyAla----- 1046

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QY 699 TGTAAATGTGAGTTTACAGCTAGCTATNGAGACTGCTGCTCTAGTCCAGAAATCA 758
DB 1046 ----- 1046
QY 759 TGGGGTATAGTACTGCTCTCCAACTGTGGCTGTAAAGACTCAGCTAGTCTCCCC 818
DB 1047 -----AlaAlaCysCysCysAlaAlaGlyAlaAla 1057
QY 819 ACTGGGGGCTGAGCCCTCCCTGAGAGCGTTCCGGGAGCCCATCATCAGTGTTCAT 878
DB 1058 ThrGlyGlyCysThrgly-----Thr-Cys----- 1065
QY 879 AGTGAGATATAGTAAAGCCCTGCTGTGC-----TCTGACATGACCAAGAGC 932
DB 1066 -----CysCysCysAlaThrCysCysThrCys-AlaThrg 1077
QY 933 GCGGTGGGGCTGCTGGGAGACA 955
DB 1077 lYThrgGlyGlyCysThrglyThr 1084

RESULT 13
US-10-140-864-531
; Sequence 531, Application US/10140864
; Publication No. US20030207419a1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gueney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C184
; CURRENT APPLICATION NUMBER: US/10/140,864
; CURRENT FILING DATE: 2002-05-07
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 531
; LENGTH: 1150
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-864-531

Alignment Scores:
Pred. No.: 0.0134 Length: 1150
Score: 133.50 Matches: 80
Percent Similarity: 26.21% Conservative: 12
Best Local Similarity: 22.79% Mismatches: 79
Query Match: 5.28% Indels: 180
DB: 12 Gaps: 13

US-09-989-919-15 (1-1397) x US-10-140-864-531 (1-1150)

QY 3 TCGTGACCTGT-----ACCGA 20
DB 884 CysCysThrCysCysCysThrGlyThraAlaGlyThrCysThraAlaThrThrThra 903
QY 21 GCGGGAGATATCTGAGAACTCCAGGAGAGAGATACCGAGTACAGTATCCAG 80
DB 904 AlaAlaAlaAlaCysAlaThrCysGlyAlaCysGlyAlaThraAlaCysAlaThrThrgly 923

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QY 477 AGCCAAAGTGTCCCTGATCCCAAGACCAATATGTGAAGCCCTGCTGACCTATTC 536
Db 995 -----CysThrGlyAlaThrGlyThrAlaCys-
QY 537 TGAGGCTGGCTGACCACTGACTATCTCTGACAGCTGGG-----CTTGCTGTG 587
Db 1003 ysaAlaIaaglyCysThrThrGlyAlaThrThrGlyAlaIaIaThrThrCysAlaCys- 1022
QY 588 GAGGAGTACTGTC-----ACTGGCAGCAGTCGATGTCACCTGGGAACCCCTGCA 638
Db 1023 ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
QY 639 GACAAAGCTAAACATCCACAGACAGATGTGAACAGAACGTCATAATGCGCAA 698
Db 1041 -----ThrThrCysAlaIaGlyAla----- 1046
QY 699 TGTAAATAGTGAATTACAGCTAGCTATGTGAGACTGCTGCTCTAGTCCAGGAATCA 758
Db 1046 ----- 1046
QY 759 TGGGGGTATGATGCTCTTCCAAACCTGTGGCTGTAAAGCAAGCTCAGCTATCTCCC 818
Db 1047 -----AlaAlaCysCysAlaIaIaIaGlyAlaIaAla 1057
QY 819 ACTGGGGCTGTGCCCCCTCCCTGGGACGGTTCCGTGGGACGCCCATCACTGTGTTCAAT 878
Db 1058 ThrGlyGlyCysThrGly-----Thr-Cys----- 1065
QY 879 AGTGTAGAATGTAGCTAAAGCCCTGCTGCTGC-----TGCTGACATGCAACAGCAG 932
Db 1066 -----CysCysCysAlaThrCysCysThrCys-AlaThrG 1077
QY 933 GCGGTGGGGCTGCTGCTGGGAGCA 955
Db 1077 LyThrGlyGlyCysThrGlyThr 1084

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RESULT 15

US-10-141-756-531

Sequence 531, Application US/10141756

Publication No. US20030207359A1

GENERAL INFORMATION:

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APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C200
CURRENT APPLICATION NUMBER: US/10/141,756
CURRENT FILING DATE: 2002-05-08
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 531
LENGTH: 1150
TYPE: DNA
ORGANISM: Homo Sapien
US-10-141-756-531

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Alignment Scores:

0.0134

Length:

1150

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Score: 133.50
Percent Similarity: 26.21%
Best Local Similarity: 22.79%
Query Match: 5.28%
DB: 12
Gaps: 13

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us-09-989-919-15 (1-1397) x US-10-141-756-531 (1-1150)

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QY 3 TGCTGACACTGT-----ACCGGA 20
Db 884 CysCysThrCysCysCysThrGlyThrAlaIaIaGlyThrCysThrAlaThrThrAla 903
QY 21 GCGGCGATGATGTGAGAACTCCACGGCAGGACAGTACCGATGATATCCAG 80
Db 904 AlaAlaIaIaIaCysAlaIaThrCysGlyAlaIaThrAlaCysAlaIaThrThrGly 923
QY 81 ACAGCAACATCCCCAGAGAACTACCGTGTGGCCATCTTACCAACCCGGAGTGGC 140
Db 924 AlaAlaIaIaThrGlyThrGlyThrGlyAlaIaIaCysGlyThrThrThrThrGlyAla 943
QY 141 TCCCTTACGTGTTCAACCTGCTGAGGCTGT-----GGATG 176
Db 944 AlaAlaIaGlyCysThrAlaCysAla-GlyCysThrThrCysCysAlaIaGlyCysAlaGlyCys 963
QY 177 TCTGTAGAGCCATGCCCCAGTGTGCGCCCTTGTGTGATCAACCAAGCAACCTGAGACG 236
Db 963 s-CysAlaIaIaIaIaIaIaGlyCysAlaIaCysThrGlyThrThrGlyThrThrThrG 983
QY 237 GTGAGCCAGTGGGAAGAAGCCCTTCCAAAGGAGATGGCAGACCTCTTGGAGTTGATG 296
Db 983 LyGlyCysAlaIaIaGlyAlaCys----- 990
QY 297 ATAGAGATCCCCCATCGGAATGTCAGAGGGGAGTGTGAGGTATGAGAGAGTATAGT 356
Db 991 -----GlyGly----- 994
QY 357 GTCTTCAAGGAGTGAATTAAGGAGAAATGTCTTCCCTCCAGAAAGAAATCCACAC 416
Db 994 yS----- 994
QY 417 CCTGTACTCTACCTCTGCCCCCAGGTGGCAGCTGTCTTTTCAAGACTGATGG 476
Db 994 ----- 994
QY 477 AGCCAAAGTGTCCCTGATCCCAAGACCAATATGTGAAGCCCTGCTGACCTATTC 536
Db 995 -----CysThrGlyAlaThrGlyThrAlaC 1003
QY 537 TGAGGCTGGCTGACCACTGACTATCTCTGACAGCTGGG-----CTTGCTGTG 587
Db 1003 ysaAlaIaaglyCysThrThrGlyAlaThrThrGlyAlaIaIaThrThrCysAlaCys- 1022
QY 588 GAGGAGTACTGTC-----ACTGGCAGCAGTCGATGTCACCTGGGAACCCCTGCA 638
Db 1023 ThrGlyCysThrCysAlaCysThrThrGlyAlaThrAlaCys-----GlyThrThrAla 1040
QY 639 GACAAAGCTAAACATCCACAGACAGATGTGAACAGAACGTCATAATGCGCAA 698
Db 1041 -----ThrThrCysAlaIaGlyAla----- 1046
QY 699 TGTAAATAGTGAATTACAGCTAGCTATGTGAGACTGCTGCTCTAGTCCAGGAATCA 758
Db 1046 ----- 1046
QY 759 TGGGGGTATGATGCTCTTCCAAACCTGTGGCTGTAAAGCAAGCTCAGCTATCTCCC 818
Db 1047 -----AlaAlaCysCysAlaIaIaIaGlyAlaIaAla 1057
QY 819 ACTGGGGCTGTGCCCCCTCCCTGGGACGGTTCCGTGGGACGCCCATCACTGTGTTCAAT 878
Db 1058 ThrGlyGlyCysThrGly-----Thr-Cys----- 1065
QY 879 AGTGTAGAATGTAGCTAAAGCCCTGCTGCTGC-----TGCTGACATGCAACAGCAG 932

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Wed Dec 17 09:19:20 2003

us-09-989-919-15.rapb

Page 14

D6		1066	- - - - -		CysCysAlaThrCysCysIleHis-AlaThrG	1077
OY	933	GCGGTGGGAGCTGCCTGGGACA				955
DB	1077	LyrThrGlyGlyCysThrGlyThr				1084

Search completed: December 12, 2003, 18:46:13
Job time : 72.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 13, 2003, 18:11:58 ; Search time 80 Seconds
(without alignments)
7707.653 Million cell updates/sec

Title: US-09-989-919-15

Perfect score: 1397
Sequence: 1 ggtgctgcacccgtaccgga.....aaaaaaaaaaagcgctc 1397

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/prodata/2/ina/5A COMB.seq:*
2: /cgn2_6/prodata/2/ina/5B COMB.seq:*
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6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	3.3	2773	4	US-09-996-243-178
2	44.6	3.2	1037	4	US-09-489-847-112
3	44.6	3.2	1342	4	US-09-489-847-89
4	44	3.1	1037	4	US-09-489-847-112
5	43.2	3.1	2223	1	US-08-257-073-4
6	43	3.1	441	4	US-09-601-537-10
7	43	3.1	944	3	US-08-906-769-82
8	43	3.1	944	3	US-08-906-616-82
9	43	3.1	944	3	US-08-817-795-82
10	43	3.1	944	3	US-08-639-075A-82
11	43	3.1	944	3	US-09-012-431-82
12	43	3.1	944	3	US-09-012-692-82
13	43	3.1	944	3	US-08-906-613-82
14	43	3.1	944	5	PCT-US95-14442A-82
15	43	3.1	945	3	US-09-032-215-26
16	43	3.1	1582	3	US-09-032-215-28
17	43	3.1	1582	3	US-08-545-196B-10
18	43	3.1	1582	3	US-08-545-196B-12
19	43	3.1	4121	4	US-09-601-537-9
20	42.8	3.1	1052	4	US-09-489-847-23
21	42.6	3.0	1361	4	US-09-489-847-64
22	42.6	3.0	1492	4	US-09-369-247-23
23	42.6	3.0	5852	1	US-08-232-463-14
24	42	3.0	7218	1	US-07-867-106-2
25	41.8	3.0	4203	2	US-08-866-757-1
26	41.8	3.0	4203	2	US-09-153-593-1
27	41.4	3.0	731	4	US-09-288-143-38

28	41.4	3.0	2136	4	US-09-996-243-302	Sequence 302, App
29	41.4	3.0	3715	4	US-09-234-245-1	Sequence 1, Appl
30	41.4	3.0	6152	3	US-08-973-462-1	Sequence 1, Appl
31	41.4	3.0	37950	3	US-09-338-907-183	Sequence 183, App
32	41.4	3.0	37950	4	US-09-218-207-183	Sequence 183, App
33	41.2	2.9	2434	4	US-09-489-847-67	Sequence 67, Appl
34	40.8	2.9	198	1	US-08-330-108-16	Sequence 16, Appl
35	40.8	2.9	949	5	PCT-US92-10087-16	Sequence 16, Appl
36	40.8	2.9	144	1	US-08-489-847-35	Sequence 35, Appl
37	40.4	2.9	144	1	US-08-702-344-26	Sequence 26, Appl
38	40.4	2.9	1474	3	US-08-821-994-64	Sequence 64, Appl
39	40.4	2.9	3138	1	US-07-867-106-4	Sequence 4, Appl
40	40	2.9	1683	3	US-09-347-803-11	Sequence 11, Appl
41	40	2.9	2447	2	US-09-014-969-14	Sequence 14, Appl
42	39.8	2.8	1129	4	US-09-227-357-40	Sequence 40, Appl
43	39.8	2.8	3989	4	US-09-205-258-28	Sequence 28, Appl
44	39.6	2.8	1114	4	US-09-152-060-41	Sequence 41, Appl
45	39.6	2.8	2013	4	US-09-596-196-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-996-243-178
; Sequence 178, Application US/09996243
; Patent No. 6478825
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Batton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerbert, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C13
; CURRENT APPLICATION NUMBER: US/09/996,243
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 3.3%; Score 46; DB 4; Length 2773;
Best Local Similarity 57.7%; Pred. No. 0.011;
Matches 82; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

QY 1249 CCTCCCGAGTTGTAATCCAGAACTTTGACTCTTGTGTTAATTGTTATT 1308
DB 2584 CCCTCGAGCAAGTTTCATTTTGTATGACATGAGAAATGCTGAATTAAGTTTGA 2643
QY 1309 TTGTAAAAATAAATAAATAATAGTAATATAATGATGTTTACAGCAAACTCTCCCT 1368
DB 2644 AGATGAAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2703
QY 1369 AAAAAAAAAAAAAAAAAAAAAA 1390
DB 2704 AAAAAAAAAAAAAAAAAAAAAA 2725

RESULT 2

US-09-489-847-112

; Sequence 112, Application US/09489847

; Patent No. 6476195

; GENERAL INFORMATION:

; APPLICANT: Rosen et al

; TITLE OF INVENTION: 98 Human Secreted Proteins

; FILE REFERENCE: P2031P1

; CURRENT APPLICATION NUMBER: US/09/489,847

; EARLIER FILING DATE: 2000-01-24

; EARLIER APPLICATION NUMBER: PCT/US99/17130

; EARLIER FILING DATE: 1999-07-29

; EARLIER APPLICATION NUMBER: 60/094,657

; EARLIER FILING DATE: 1998-07-30

; EARLIER APPLICATION NUMBER: 60/095,486

; EARLIER FILING DATE: 1998-08-05

; EARLIER APPLICATION NUMBER: 60/096,319

; EARLIER FILING DATE: 1998-08-12

; EARLIER APPLICATION NUMBER: 60/095,454

; EARLIER FILING DATE: 1998-08-06

; EARLIER APPLICATION NUMBER: 60/095,455

; EARLIER FILING DATE: 1998-08-06

; NUMBER OF SEQ ID NOS: 376

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 112

; LENGTH: 1037

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (936)

; OTHER INFORMATION: n equals a,t,g, or c

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (946)

; OTHER INFORMATION: n equals a,t,g, or c

; FEATURE:

; NAME/KEY: SITE

; LOCATION: (951)

; OTHER INFORMATION: n equals a,t,g, or c

; US-09-489-847-112

Query Match 3.2%; Score 44.6; DB 4; Length 1037;

Best Local Similarity 61.8%; Pred. No. 0.015;

Matches 68; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 1281 GACTTCTGTGTGTTAATGTTTATTTTGTAAAAATAAATAATTAAGTTAATA 1340

DB 920 GGAATTTTAAAGATTTTAAAGATTTTAAAGATTTTAAAGATTTTAAAGATTTTAA 979

QY 1341 AATGATTTTACAGCAAACTCTTCCCTAAAAA 1390

DB 980 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1029

RESULT 3

US-09-489-847-89

; Sequence 89, Application US/09489847

; Patent No. 6476195

; GENERAL INFORMATION:

; APPLICANT: Rosen et al

; TITLE OF INVENTION: 98 Human Secreted Proteins

; FILE REFERENCE: P2031P1

; CURRENT APPLICATION NUMBER: US/09/489,847

; EARLIER FILING DATE: 2000-01-24

; EARLIER APPLICATION NUMBER: PCT/US99/17130

; EARLIER FILING DATE: 1999-07-29

; EARLIER APPLICATION NUMBER: 60/094,657

; EARLIER FILING DATE: 1998-07-30

; EARLIER APPLICATION NUMBER: 60/095,486

; EARLIER FILING DATE: 1998-08-05

; EARLIER APPLICATION NUMBER: 60/096,319

; EARLIER FILING DATE: 1998-08-12

; EARLIER APPLICATION NUMBER: 60/095,454

; EARLIER FILING DATE: 1998-08-06

; EARLIER APPLICATION NUMBER: 60/095,455

; EARLIER FILING DATE: 1998-08-06

; NUMBER OF SEQ ID NOS: 376

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 89

; LENGTH: 1342

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-489-847-89

Query Match 3.2%; Score 44.6; DB 4; Length 1342;

Best Local Similarity 58.8%; Pred. No. 0.018;

Matches 77; Conservative 0; Mismatches 54; Indels 0; Gaps 0;

QY 1260 TTGAATATCCAGATCTTTGACTCTTGTGTTAATTGTTTATTTTGTAAAAA 1319

DB 1208 TGTAAATGTTAAGAAATTTTATTCGTTAAATAAATATTTCCAAAAA 1267

QY 1320 TAAATTAATAATAGTAATATAATGATGTTTCCAGCAAACTCTCCCTAAAAA 1379

DB 1268 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1327

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

QY 1380 AAAAAAAAAAAAAA 1390

DB 1328 AAAAAAAAAAAAAA 1338

RESULT 7

US-08-906-769-82

; Sequence 82, Application US/08906769

; Patent No. 6077687

; GENERAL INFORMATION:

; APPLICANT: Grieve, Robert B.

; APPLICANT: Rushlow, Keith E.

; APPLICANT: Wu Hunter, Shirley

; APPLICANT: Frank, Glenn R.

; APPLICANT: Stiegler, Gary

; APPLICANT: Silver, Gary

; TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID

; TITLE OF INVENTION: MOLECULES AND USES THEREOF

; NUMBER OF SEQUENCES: 190

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sheridan Ross & McIntosh

; STREET: 1700 Lincoln Street, Suite 3500

; CITY: Denver

; STATE: Colorado

; COUNTRY: USA

; ZIP: 80203

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/906,769

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/639,075

; FILING DATE: 24-APR-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Connell, Gary J.

; REGISTRATION NUMBER: 32,020

; REFERENCE/DOCKET NUMBER: 2618-25-C2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (303) 863-9700

; TELEFAX: (303) 863-0223

; INFORMATION FOR SEQ ID NO: 82:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 944 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 3..768

; US-08-906-769-82

Query Match 3.1%; Score 43; DB 3; Length 944;

Best Local Similarity 58.0%; Pred. No. 0.04; Indels 0; Gaps 0;

Matches 76; Conservative 0; Mismatches 55;

QY 1260 TTGAATATCCAGAACTTTTGTACTCTTGTGTTAAATGTTTATTTTGTAAAAA 1319

DB 814 TTTTAGATATAAATCTTTTGATTCATGCAAAATTTTGTATTTATTTATTTAC 873

QY 1320 TAAATATAATTTAGTTAATAATGATGTTTCACAGAACTCTCCCTAAAAA 1379

DB 874 TTTTATCAACGATGATTAAGATTAACAATAAAATGTTAGTTGCCAAAAA 933

QY 1380 AAAAAAAAAA 1390

DB 934 AAAAAAAAAA 944

RESULT 8

US-08-906-616-82

; Sequence 82, Application US/08906616

; Patent No. 6121035

; GENERAL INFORMATION:

; APPLICANT: Grieve, Robert B.

; APPLICANT: Rushlow, Keith E.

; APPLICANT: Wu Hunter, Shirley

; APPLICANT: Frank, Glenn R.

; APPLICANT: Stiegler, Gary

; APPLICANT: Silver, Gary

; TITLE OF INVENTION: FLEA AMINOPEPTIDASE PROTEINS AND USES THEREOF

; NUMBER OF SEQUENCES: 190

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sheridan Ross P.C.

; STREET: 1700 Lincoln Street, Suite 3500

; CITY: Denver

; STATE: Colorado

; COUNTRY: USA

; ZIP: 80203

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: Patent Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/906,616

; FILING DATE: 05-AUG-1997

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: Connell, Gary J.

; REGISTRATION NUMBER: 32,020

; REFERENCE/DOCKET NUMBER: 2618-25-C2-3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (303) 863-9700

; TELEFAX: (303) 863-0223

; INFORMATION FOR SEQ ID NO: 82:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 944 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 3..768

; US-08-906-616-82

Query Match 3.1%; Score 43; DB 3; Length 944;

Best Local Similarity 58.0%; Pred. No. 0.04; Indels 0; Gaps 0;

Matches 76; Conservative 0; Mismatches 55;

QY 1260 TTGAATATCCAGAACTTTTGTACTCTTGTGTTAAATGTTTATTTTGTAAAAA 1319

DB 814 TTTTAGATATAAATCTTTTGATTCATGCAAAATTTTGTATTTATTTATTTAC 873

QY 1320 TAAATATAATTTAGTTAATAATGATGTTTCACAGAACTCTCCCTAAAAA 1379

DB 874 TTTTATCAACGATGATTAAGATTAACAATAAAATGTTAGTTGCCAAAAA 933

QY 1380 AAAAAAAAAA 1390

DB 934 AAAAAAAAAA 944

RESULT 9

US-08-817-795-82

; Sequence 82, Application US/08817795

; Patent No. 613840

; GENERAL INFORMATION:

; APPLICANT: Grieve, Robert B.

; APPLICANT: Rushlow, Keith E.

; APPLICANT: Hunter, Shirley Wu

APPLICANT: Frank, Glenn R.
APPLICANT: Heach, Andrew W.
APPLICANT: Yamaka, Miles Yamanaka
APPLICANT: Arfeten, Ann
APPLICANT: Dale, Beverly
APPLICANT: Stiegler, Gary
TITLE OF INVENTION: USE OF PROTEASE INHIBITORS AND
TITLE OF INVENTION: PROTEASE VACCINES TO PROTECT ANIMALS FROM PLEA
TITLE OF INVENTION: INFESTATION, AND FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,795
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14442
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gary J. Connell
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
US-08-817-795-82

Query Match 3.1%; Score 43; DB 3; Length 944;
Best Local Similarity 58.0%; Pred. No. 0.04;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1260 TTGGAATATCCAGATCTTTGTAATCTTGTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGATATATAATCTTTGTGATTCATGCAAAATATTTGTTATTTATTTTAC 873

QY 1320 TAAATATAATTAATTAATTAATGAATGTTTCACAGCAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAAAGCATGATTAAGTAATTAACATAAAAAAGTTAGTGTCCAAAAA 933

QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

RESULT 10
US-08-639-075A-82
Sequence 82, Application US/08639075A
Patent No. 6150125
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.

APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/639,075A
FILING DATE: 24-APR-1996
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
US-08-639-075A-82

Query Match 3.1%; Score 43; DB 3; Length 944;
Best Local Similarity 58.0%; Pred. No. 0.04;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 1260 TTGGAATATCCAGATCTTTGTAATCTTGTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGATATATAATCTTTGTGATTCATGCAAAATATTTGTTATTTATTTTAC 873

QY 1320 TAAATATAATTAATTAATTAATGAATGTTTCACAGCAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAAAGCATGATTAAGTAATTAACATAAAAAAGTTAGTGTCCAAAAA 933

QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

RESULT 11
US-09-012-431-82
Sequence 82, Application US/09012431
Patent No. 6180383
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID

MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/012,431
FILING DATE: 23-Jan-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/639,075
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-09-012-431-82
Query Match 3.1%; Score 43; DB 3; Length 944;
Best Local Similarity 58.0%; Pred. No. 0.04;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
QY 1260 TTGAATATCCAGATCTTTGACTCTGTGTTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGTATATAAATCCTTGATTCATGCAAAATATTTGTTTATTTATTTAC 873
QY 1320 TAAATTAATTAATGTTAATAATGATGTTTCACAGCAAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAAACGATGTATTAAGTGAATTACATTAATAAATGTTAGTGTGCCAAAAA 933
QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/012,692
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/639,075
FILING DATE: 24-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-09-012-692-82
Query Match 3.1%; Score 43; DB 3; Length 944;
Best Local Similarity 58.0%; Pred. No. 0.04;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
QY 1260 TTGAATATCCAGATCTTTGACTCTGTGTTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGTATATAAATCCTTGATTCATGCAAAATATTTGTTTATTTATTTAC 873
QY 1320 TAAATTAATTAATGTTAATAATGATGTTTCACAGCAAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAAACGATGTATTAAGTGAATTACATTAATAAATGTTAGTGTGCCAAAAA 933
QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

RESULT 12
US-09-012-692-82
Sequence 82, Application US/09012692
Patent No. 6214579
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190

RESULT 13
US-08-906-613-82
Sequence 82, Application US/08906613
Patent No. 6232096
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary
APPLICANT: Gaines, Patrick J.
APPLICANT: Silver, Gary
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES AND USES THEREOF
NUMBER OF SEQUENCES: 190
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, Suite 3500

CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906.613
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/639,075
FILING DATE: 24-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
US-08-906-613-82

Query Match
Best Local Similarity 58.0%; Score 43; DB 3; Length 944;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
QY 1260 TTGAATATCCAGATCTTTTGACTCTTGTTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGATATATAATCCCTTGATTCAGCAAAATTTTGTATTTATTTATTTAC 873
QY 1320 TAAATATAATTTAGTTAATAATGATGTTTCACAGCAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAGATGATGATTAAGTGAATTAACAATAAATGTTAGTCCCAAAAAA 933
QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

RESULT 14
PCT-US95-14442A-82
Sequence 82, Application .PC/TUS9514442A
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Hunter, Shirley Wu
APPLICANT: Frank, Glenn R.
APPLICANT: Heath, Andrew W.
APPLICANT: Yamaka, Miles Yamanaka
APPLICANT: Arfsten, Ann
APPLICANT: Dale, Beverly
APPLICANT: Stiegler, Gary
TITLE OF INVENTION: USE OF PROTEASE INHIBITORS AND
TITLE OF INVENTION: PROTEASE VACCINES TO PROTECT ANIMALS FROM FLEA
TITLE OF INVENTION: INESTRATION, AND FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Sheridan Rose & McIntosh
STREET: 1700 Lincoln Street, Suite 3500

CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14442A
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Gary J. Connell
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 82:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..768
PCT-US95-14442A-82

Query Match
Best Local Similarity 58.0%; Score 43; DB 5; Length 944;
Matches 76; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
QY 1260 TTGAATATCCAGATCTTTTGACTCTTGTTGTTAAATGTTATTTTGTAAAAA 1319
DB 814 TTTAGATATATAATCCCTTGATTCAGCAAAATTTTGTATTTATTTATTTAC 873
QY 1320 TAAATATAATTTAGTTAATAATGATGTTTCACAGCAACTCTCCCTAAAAA 1379
DB 874 TTTATTCAGATGATGATTAAGTGAATTAACAATAAATGTTAGTCCCAAAAAA 933
QY 1380 AAAAAAAAAA 1390
DB 934 AAAAAAAAAA 944

RESULT 15
US-09-032-215-26
Sequence 26, Application US/09032215
Patent No. 6204010
GENERAL INFORMATION:
APPLICANT: Stiegler, Gary L.
APPLICANT: Gaines, Patrick J.
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Sheridan Rose P.C.
STREET: 1700 Lincoln Street, Suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: U.S.A.
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII DOS TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,215

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OM nucleic - nucleic search, using sw model

Run on: December 13, 2003, 19:04:07 ; Search time 358 Seconds

(without alignments)
12965.464 Million cell updates/sec

Title: US-09-989-919-15

Perfect score: 1397

Sequence: 1 ggtgctgacacttaccgga.....aaaaaaaaaagcgctc 1397

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Gapop 10.0 , Gapext 1.0

Searched: 2201672 seqs, 166179959 residues

Total number of hits satisfying chosen parameters: 4403344

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
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- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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- 14: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
- 15: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1397	100.0	1397	US-09-989-919-15	Sequence 15, Appl
2	940.4	67.3	1714	US-10-006-285-474	Sequence 474, Appl
3	464.2	33.2	470	US-09-989-919-14	Sequence 14, Appl
4	420.6	30.1	427	US-09-880-107-1138	Sequence 1138, Appl
5	164	11.7	1358	US-10-006-285-304	Sequence 304, Appl
6	97	6.9	493	US-09-918-995-32213	Sequence 32213, A
7	72.2	5.2	250	US-10-006-285-33	Sequence 33, Appl
8	55.2	4.0	428	US-09-960-352-10180	Sequence 10180, A
9	53.8	3.9	664	US-09-814-353-4739	Sequence 4739, Appl
10	53.8	3.9	664	US-09-814-353-11036	Sequence 11036, A
11	53.6	3.8	476	US-09-814-353-17420	Sequence 17420, A
12	52.4	3.8	383	US-09-814-353-18006	Sequence 18006, A
13	51	3.7	375	US-09-960-352-15014	Sequence 15014, A
14	50.6	3.6	425	US-09-834-975-451	Sequence 451, Appl
15	50.6	3.6	16688	US-10-311-455-293	Sequence 293, Appl

C 16	50.4	3.6	317	13	US-10-125-966-1260	Sequence 1260, Appl
C 17	50.4	3.6	383	13	US-09-814-353-18006	Sequence 18006, A
C 18	50.2	3.6	302	13	US-09-814-353-5335	Sequence 5335, A
C 19	50.2	3.6	302	13	US-09-814-353-11622	Sequence 11622, A
C 20	50	3.6	461	13	US-09-814-353-17779	Sequence 17779, A
C 21	49.4	3.5	312	10	US-09-960-352-8414	Sequence 8414, Appl
C 22	49	3.5	361	15	US-10-198-846-8619	Sequence 8619, Appl
C 23	48.8	3.5	375	10	US-09-960-352-15014	Sequence 15014, A
C 24	48.8	3.5	424	10	US-09-960-352-11218	Sequence 11218, A
C 25	48.6	3.5	746	9	US-09-910-943-714	Sequence 714, Appl
C 26	48.4	3.5	298	10	US-09-960-352-1004	Sequence 1004, Appl
C 27	48.2	3.5	348	13	US-09-814-353-5612	Sequence 5612, Appl
C 28	48.2	3.5	348	13	US-09-814-353-11899	Sequence 11899, A
C 29	48.2	3.5	436	10	US-09-834-975-533	Sequence 533, Appl
C 30	48.2	3.5	1885	13	US-09-814-353-19371	Sequence 19371, A
C 31	48.2	3.5	8260	13	US-10-240-453-215	Sequence 215, Appl
C 32	48	3.4	424	15	US-10-198-846-2929	Sequence 2929, Appl
C 33	48	3.4	530	13	US-09-814-353-5294	Sequence 5294, Appl
C 34	48	3.4	530	13	US-09-814-353-11581	Sequence 11581, A
C 35	47.8	3.4	277	10	US-09-960-352-12673	Sequence 12673, A
C 36	47.8	3.4	312	10	US-09-960-352-8414	Sequence 8414, Appl
C 37	47.6	3.4	435	13	US-09-814-353-11395	Sequence 11395, A
C 38	47.6	3.4	435	13	US-09-960-352-3319	Sequence 3319, Appl
C 39	47.2	3.4	638	15	US-10-198-846-8560	Sequence 8560, Appl
C 40	47	3.4	600	15	US-10-198-846-8434	Sequence 8434, Appl
C 41	46.8	3.4	1767	14	US-10-001-843-1	Sequence 1, Appl
C 42	46.8	3.3	416	10	US-09-960-352-4584	Sequence 4584, Appl
C 43	46.6	3.3	346	13	US-09-814-353-17676	Sequence 17676, A
C 44	46.4	3.3	418	10	US-09-960-352-4845	Sequence 4845, Appl
C 45	46.2	3.3				

ALIGNMENTS

RESULT 1
US-09-989-919-15
; Sequence 15, Application US/09989919
; Patent No. US20020164344A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Hervé
; APPLICANT: Pluta, Jason
; APPLICANT: Ghosh, Malavika
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Pr
; FILE REFERENCE: DEX-0289
; CURRENT APPLICATION NUMBER: US/09/989,919
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/252,505
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 1397
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-989-919-15

Query Match 100.0%; Score 1397; DB 10; Length 1397;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1397; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTGCTGACACTTATCCGAGCGGAGATGTGCAAGACTCCAGCGGACAGCAGTAC 60
DB 1 GGTGCTGACACTTATCCGAGCGGAGATGTGCAAGACTCCAGCGGACAGCAGTAC 60
QY 61 CGAGTACCACTGATCCAGACAGCAATCCCCCGAGAGATACCGCTGCGGCATC 120
DB 61 CGAGTACCACTGATCCAGACAGCAATCCCCCGAGAGATACCGCTGCGGCATC 120
QY 121 CTACACACAGGAGAGCTGCTCTTCAAGTTCACACTGAGGCTGATGATCTG 180

Db 121 CTACACACAGGAGGAGCTCTCTTTCAGTGTCAACCTGGCTAGGCTGTGATGCTG 180
 Qy 181 TGAGAGCCATGCCAGTGTGGGCTTTGTGTGTCACCAACAGCACTGGAGATGTA 240
 Db 181 TGAAGCCATGCCAGTGTGGGCTTTGTGTGTCACCAACAGCACTGGAGATGTA 240
 Qy 241 GCCAGTGGAGAGAGCCCTTCCAGAGGAGATGGCAGAGCTCTGTGAGGTTGATAGTAG 300
 Db 241 GCCAGTGGAGAGAGCCCTTCCAGAGGAGATGGCAGAGCTCTGTGAGGTTGATAGTAG 300
 Qy 301 TGATCCCCCATCGAGAGTCAAGGGGGTGTGAGGTATGAGAGAGATATACGTGTCT 360
 Db 301 TGATCCCCCATCGAGAGTCAAGGGGGTGTGAGGTATGAGAGAGATATACGTGTCT 360
 Qy 361 TCAGAGCAGTCAATTTAGGAGATGTGTTGCTTCCAGAAAGAGAAACATCCAGCCCTG 420
 Db 361 TCAGAGCAGTCAATTTAGGAGATGTGTTGCTTCCAGAAAGAGAAACATCCAGCCCTG 420
 Qy 421 TTACTCTCACTCTGCCCCCAGGTGCGAGCTGTCTTTTCAAGACTGATGAGACC 480
 Db 421 TTACTCTCACTCTGCCCCCAGGTGCGAGCTGTCTTTTCAAGACTGATGAGACC 480
 Qy 481 AAGTGTCCCTGATCCCAAGAGCAATATGTGAAGGCTCTGCTGACTATCTGAG 540
 Db 481 AAGTGTCCCTGATCCCAAGAGCAATATGTGAAGGCTCTGCTGACTATCTGAG 540
 Qy 541 GGGCTGGCTGACAGCTGATCTCTTCAAGAGCTGGCTTGTGAGAGGAGATGCTT 600
 Db 541 GGGCTGGCTGACAGCTGATCTCTTCAAGAGCTGGCTTGTGAGAGGAGATGCTT 600
 Qy 601 GCATGCGAGACAGTATGATGATGAGGAAACCTTGGAGAGCAAGCTAACATCCAGACA 660
 Db 601 GCATGCGAGACAGTATGATGATGAGGAAACCTTGGAGAGCAAGCTAACATCCAGACA 660
 Qy 661 GACAGATGTGACAGAGCAAAAGTGCATATATGCAATATGTTAAATGTGAGTTTACAG 720
 Db 661 GACAGATGTGACAGAGCAAAAGTGCATATATGCAATATGTTAAATGTGAGTTTACAG 720
 Qy 721 CTGAGCTATGAGGAGCTGCTGCTCTTATGTCAGAGATCATGGGGGTATGATGCTCTTCA 780
 Db 721 CTGAGCTATGAGGAGCTGCTGCTCTTATGTCAGAGATCATGGGGGTATGATGCTCTTCA 780
 Qy 781 ACCGTGAGGCTATAGCAAGCTCAGGCTAGTCTCCCACTGGGGGCTGTGCCCCCTCCT 840
 Db 781 ACCGTGAGGCTATAGCAAGCTCAGGCTAGTCTCCCACTGGGGGCTGTGCCCCCTCCT 840
 Qy 841 GGGACGGTTCCTGAGGAGCCCATCACTGTGTTCAATATGTGAGATGTAGCTAAAGC 900
 Db 841 GGGACGGTTCCTGAGGAGCCCATCACTGTGTTCAATATGTGAGATGTAGCTAAAGC 900
 Qy 901 CCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
 Db 901 CCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
 Qy 961 TCGTGGAGTGTCTCTAGCTTAGTGTGAGCAGAGAGCTTGGGGGGAGATGCTCCAGGA 1020
 Db 961 TCGTGGAGTGTCTCTAGCTTAGTGTGAGCAGAGAGCTTGGGGGGAGATGCTCCAGGA 1020
 Qy 1021 TGTGGGTGATCTGTACTCTGGGAGGCTATCTGTGACTCCCGACAGGGGACATCCAG 1080
 Db 1021 TGTGGGTGATCTGTACTCTGGGAGGCTATCTGTGACTCCCGACAGGGGACATCCAG 1080
 Qy 1081 GCCAGCCAGGGGTCAAGGGGAGAGGTGCACTCAGCATGAGCCAAAGATGGGGGTAG 1140
 Db 1081 GCCAGCCAGGGGTCAAGGGGAGAGGTGCACTCAGCATGAGCCAAAGATGGGGGTAG 1140
 Qy 1141 GGAGCAGGTGTGTTTGAAGCAGAGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 1200
 Db 1141 GGAGCAGGTGTGTTTGAAGCAGAGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 1200
 Qy 1201 CATTTGCTTTCAATGAAGAGCTCAAGAGAGCAAAACAGGGCTTTCCCTCTCGAGT 1260
 Db 1201 CATTTGCTTTCAATGAAGAGCTCAAGAGAGCAAAACAGGGCTTTCCCTCTCGAGT 1260

Db 1201 CATTTGCTTTCAATGAAGAGCTCAAGAGAGCAAAACAGGGCTTTCCCTCTCGAGT 1260
 Qy 1261 TTGAATATCCAGAACTTTTGTACTTCTGTGTGTAATTTGTTATTTTGTAAAAAT 1320
 Db 1261 TTGAATATCCAGAACTTTTGTACTTCTGTGTGTAATTTGTTATTTTGTAAAAAT 1320
 Qy 1321 AAAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1380
 Db 1321 AAAATAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1380
 Qy 1381 AAAAAAAAAAGGCGTC 1397
 Db 1381 AAAAAAAAAAGGCGTC 1397
 RESULT 2
 US-10-006-285-474
 ; Sequence 474, Application US/10006285
 ; Publication No. US20030165854A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mary Jane Cunningham
 ; APPLICANT: Matthew R. Kaser
 ; TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
 ; FILE REFERENCE: PA-0039 US
 ; CURRENT APPLICATION NUMBER: US/10/006,285
 ; CURRENT FILING DATE: 2001-12-05
 ; NUMBER OF SEQ ID NOS: 514
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 474
 ; LENGTH: 1714
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; OTHER INFORMATION: Incyte ID No. US20030165854A1 018653.18
 US-10-006-285-474
 Query Match 67.3%; Score 940.4; DB 13; Length 1714;
 Best Local Similarity 84.7%; Pred. No. 2,6e-238;
 Matches 1159; Conservative 0; Mismatches 1; Indels 208; Gaps 1;
 Qy 1 GGTGTGACACTGTATCCGAGGCGGAGATGTTGTCAGAACTCCAGGCAAGCAGCTAC 60
 Db 555 GGTGTGACACTGTATCCGAGGCGGAGATGTTGTCAGAACTCCAGGCAAGCAGCTAC 614
 Qy 61 CGAGTACAGTGTATCCAGACAGCAACATCCCGAGGAAGATCAACGCTGCGCATC 120
 Db 615 CGAGTACAGTGTATCCAGACAGCAACATCCCGAGGAAGATCAACGCTGCGCATC 674
 Qy 121 CTACACACAGGAGCTGCTCTTCAAGTGTCAACTGTGAGGCTGTGATGCTG 180
 Db 675 CTACACACAGGAGCTGCTCTTCAAGTGTCAACTGTGAGGCTGTGATGCTG 734
 Qy 181 TGAAGCATGCCAGTGTGGGCTTTGTGTACCAACAGACCACTGACAGGTGA 240
 Db 735 TGAAGCATGCCAGTGTGGGCTTTGTGTGTACCAACAGACCACTGACAGGTGA 787
 Qy 241 GCCAGTGGAGAGCCCTTCCAGAGGAGATGCAAGACCTCTGAGAGTTGATAGTAG 300
 Db 788 ----- 787
 Qy 301 TGATCCCCCATCGAAGTCAAGAGGGGGTGTGAGGTATGAGAGAGATATACGTGTCT 360
 Db 788 ----- 787
 Qy 361 TCAGGAGTCAATTTAGGAGAGATGTCTTGCTCCAGAAAGAGAAACATCCAGCCCTG 420
 Db 788 ----- 787
 Qy 421 TTACTCTCACTCTGCCCCCAGGTGCGAGCTGTCTTTTCAAGACTGATGAGACC 480
 Db 788 ----- 787
 Qy 481 ----- 826
 Db 788 ----- 826

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QY 481 AAGTGTCCCTGATCCCAACAGACCAATATGTGAAGGCTCTGGCTGACTATCTAG 540
DB 827 AAGTGTCCCTGATCCCAACAGACCAATATGTGAAGGCTCTGGCTGACTATCTAG 886
QY 541 GGTCTGGCTGATCCCAACAGACCAATATGTGAAGGCTCTGGCTGACTATCTAG 600
DB 887 GGTCTGGCTGATCCCAACAGACCAATATGTGAAGGCTCTGGCTGACTATCTAG 946
QY 601 GCACTGGCAGCAGTGTACCTGGGAAACCCCTGAGCAAAAGCTTAATCCAGACA 660
DB 947 GCACTGGCAGCAGTGTACCTGGGAAACCCCTGAGCAAAAGCTTAATCCAGACA 1006
QY 661 GACAGATGTGACAGAGCAAAAGCTTAATGTGAAGGCTCTGGCTGACTATCTAG 720
DB 1007 GACAGATGTGACAGAGCAAAAGCTTAATGTGAAGGCTCTGGCTGACTATCTAG 1066
QY 721 CTTAGCTATGGGAGTGTGCTGCTCTAGTCAAGATATGTGGGGTATGATGCTCTTCCA 780
DB 1067 CTTAGCTATGGGAGTGTGCTGCTCTAGTCAAGATATGTGGGGTATGATGCTCTTCCA 1126
QY 781 ACCCTGTGGGCTGTGAAGCAAGCTCAAGGCTAGTCTCCCACTGGGGGCTGTGCCCTCCCT 840
DB 1127 ACCCTGTGGGCTGTGAAGCAAGCTCAAGGCTAGTCTCCCACTGGGGGCTGTGCCCTCCCT 1186
QY 841 GGGACGGTTCCTGTGGGAGCCCATCACTGTGTCAATAGTGTGAAGATGTAGCTAAAGC 900
DB 1187 GGGACGGTTCCTGTGGGAGCCCATCACTGTGTCAATAGTGTGAAGATGTAGCTAAAGC 1246
QY 901 CCTGTGTGCTGTGCTGCAATGCAAGAGGCGGTGGGGGCTGTGGGGGCAATCCA 960
DB 1247 CCTGTGTGCTGTGCTGCAATGCAAGAGGCGGTGGGGGCTGTGGGGGCAATCCA 1306
QY 961 TCGTGAAGTTCCTGTAGCTTGTAGTGTGAAGAGAGCTTGGGGGGGATGTCTCCAGGA 1020
DB 1307 TCGTGAAGTTCCTGTAGCTTGTAGTGTGAAGAGAGCTTGGGGGGGATGTCTCCAGGA 1366
QY 1021 TGTGGGAGTTCCTGTAGCTTGTAGTGTGAAGAGAGCTTGTCCGAGCAGAGGAGCACTCCAG 1080
DB 1367 TGTGGGAGTTCCTGTAGCTTGTAGTGTGAAGAGAGCTTGTCCGAGCAGAGGAGCACTCCAG 1426
QY 1081 GCCAGCCAGGGGTGAGGGGAGAGTGTGACACCTGAGATGAGCCAGACTGGGGTCTAG 1140
DB 1427 GCCAGCCAGGGGTGAGGGGAGAGTGTGACACCTGAGATGAGCCAGACTGGGGTCTAG 1486
QY 1141 GAGCAGAGTGTGTTTGAAGCAGACCTGTGGGGGCTGGGGGCTTCTTCTGCT 1200
DB 1487 GAGCAGAGTGTGTTTGAAGCAGACCTGTGGGGGCTGGGGGCTTCTTCTGCT 1546
QY 1201 CATTGTCTTCAATGAAGGCTCAAGCAGCAGCAAAACAGGCTTCCCTCTCTGAGT 1260
DB 1547 CATTGTCTTCAATGAAGGCTCAAGCAGCAGCAAAACAGGCTTCCCTCTCTGAGT 1606
QY 1261 TTGAATATCCAGATCTTTTGTACTTCTGTGTGTTAAATGTTTATTTTGTAAAAAT 1320
DB 1607 TTGAATATCCAGATCTTTTGTACTTCTGTGTGTTAAATGTTTATTTTGTAAAAAT 1666
QY 1321 AAAATATAATTTAGTTAATAATATATGTTTCAACGCAAACTCTTCCCT 1368
DB 1667 AAAATATAATTTAGTTAATAATATATGTTTCAACGCAAACTCTTCCCT 1714

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; FILE REFERENCE: DEX-0289
; CURRENT APPLICATION NUMBER: US/09/989,919
; CURRENT FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/252,505
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 470
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-989-919-14

Query Match      33.2%; Score 464.2; DB 10; Length 470;
Best Local Similarity 99.4%; Pred. No. 1.7e-112;
Matches 466; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 567 CAGACAGTGGGCTTGTGCTGTGAGAGGAGTGTGACTGTGAGCAGCAGCTGCATGTCACTTG 626
DB 2 CAGGTCTGGGCTTGTGCTGTGAGAGGAGTGTGACTGTGAGCAGCAGCTGCATGTCACTTG 61
QY 627 GGAACCCCTGACAGCAAAAGCTTAATCCAGACAGCAGATGTGACAGAGCAAAAGTGC 686
DB 62 GGAACCCCTGACAGCAAAAGCTTAATCCAGACAGCAGATGTGACAGAGCAAAAGTGC 121
QY 687 AATATATGCCAAATGTTAAATGTGAGTTTACAGAGCTTATGAGGAGTGTGCTGCTCTTA 746
DB 122 AATATATGCCAAATGTTAAATGTGAGTTTACAGAGCTTATGAGGAGTGTGCTGCTCTTA 181
QY 747 GTCCAGAAATCATGGGGGATATGATGCTCTCCACCTGTGGGCTGTGAAGCAAGTCTAG 806
DB 182 GTCCAGAAATCATGGGGGATATGATGCTCTCCACCTGTGGGCTGTGAAGCAAGTCTAG 241
QY 807 GCTAGTCTCCCACTGGGGGCTGTGCTCTCTCTGAGAGGTTCCCTGGGAGGCCCTC 866
DB 242 GCTAGTCTCCCACTGGGGGCTGTGCTCTCTCTGAGAGGTTCCCTGGGAGGCCCTC 301
QY 867 ACTGTGTCAATGTGTGAGAAATGTAGCTAAAGCCCTGTGCTGTGCTGACATGCCA 926
DB 302 ACTGTGTCAATGTGTGAGAAATGTAGCTAAAGCCCTGTGCTGTGCTGACATGCCA 361
QY 927 CAGCAGCGGTGGGGCTGCTGTGGGAGCAATCCATGTTGAGTGTCTCTCAGCTTAGT 986
DB 362 CAGCAGCGGTGGGGCTGCTGTGGGAGCAATCCATGTTGAGTGTCTCTCAGCTTAGT 421
QY 987 CTGACAGAGACTTGGCGGGGATGCTCAGAGATGTGGTATTTCTGT 1035
DB 422 CTGACAGAGACTTGGCGGGGATGCTCAGAGATGTGGTATTTCTGT 470

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RESULT 4
US-09-880-107-1138/c
; Sequence 1138, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-MO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1138
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapiens

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: FEATURE:3;
: OTHER INFORMATION: Genbank Accession No. US20020142981A1 AA451877
US-09-880-107-1138

Query Match          30.1%; Score 420.8; DB 10; Length 427;
Best Local Similarity 99.5%; Pred. No. 5,1e-10;
Matches 422; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 936 GTGGGGGCTGGCTGGGGCAATCCATCTCGAGTGTTCCTCAGCTTAGTGGTGGACAGG 995
    |||||
Db 427 GTGGGGGCTGGCTGGGGCAATCCATCTCGAGTGTTCCTCAGCTTAGTGGTGGACAGG 368

Oy 996 AGACTTGGCGGGGAGATGCTCCAGAGATGGGGATTTCTGTAACCTGGGAGGCTATCTCG 1055
    |||||
Db 367 AGACTTGGCGGGGAGATGCTCCAGAGATGGGGATTTCTGTAACCTGGGAGGCTATCTCG 308

Oy 1056 ACCTCCGACAGGGGACACTCCGAGCCAGCCAGGGGTCAAGGGGACAGGGTGCACACT 1115
    |||||
Db 307 ACCTCCGACAGGGGACACTCCGAGCCAGCCAGGGGTCAAGGGGACAGGGTGCACACT 248

Oy 1116 CAGCATGAGCCNAAGCTGGGGTCAAGGAGCAGGTGGTTTGAGTCAGGACCTGGGGCGG 1175
    |||||
Db 247 CAGCATGAGCCNAAGCTGGGGTCAAGGAGCAGGTGGTTTGAGTCAGGACCTGGGGCGG 188

Oy 1176 GGGTGGGGCGGGGGCTTTCTGCTCATTTGCTTCAATGGAAGCTCAAAAGCACCAAA 1235
    |||||
Db 187 GGGTGGAGCAGGGGGCTTTCTGCTCATTTGCTTCAATGGAAGCTCAAAAGCACCAAA 128

Oy 1236 TAAATGTTTATTTTGTAAAAAATAAATTAATTAATTAATTAATTAATTAATTAATTA 1295
    |||||
Db 127 ACCAGGCTTTCCTCCCTCTCGAGTTGTAATATCCAGATCTTTTGTATCTTGTGGT 68

Oy 1286 TAAATGTTTATTTTGTAAAAAATAAATTAATTAATTAATTAATTAATTAATTAATTA 1355
    |||||
Db 67 TAAATGTTTATTTTGTAAAAAATAAATTAATTAATTAATTAATTAATTAATTAATTA 8

Oy 1356 CAAA 1359
    |||||
Db 7 CAAA 4

RESULT 5
US-10-006-285-304
: Sequence 304, Application US/10006285
: Publication No. US20030165854A1
: GENERAL INFORMATION:
: APPLICANT: Mary Jane Cunningham
: APPLICANT: Matthew R. Kaaser
: TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
: FILE REFERENCE: PA-0039 US
: CURRENT APPLICATION NUMBER: US/10/006,285
: CURRENT FILING DATE: 2001-12-05
: NUMBER OF SEQ ID NOS: 514
: SOFTWARE: PERL Program
: SEQ ID NO 304
: LENGTH: 1358
: TYPE: DNA
: ORGANISM: Rattus norvegicus
: FEATURE:
: NAME/KEY: misc feature
: OTHER INFORMATION: Incyte ID No. US20030165854A1 218659_Rn.1
US-10-006-285-304

Query Match          11.7%; Score 164; DB 13; Length 1358;
Best Local Similarity 84.0%; Pred. No. 1.2e-32;
Matches 210; Conservative 0; Mismatches 35; Indels 5; Gaps 2;

Oy 1 GGTGCTGACCTGTACCGAGCGGGCAGATCTGTGCAAGACTCCAGCGACGACGACTAC 60
    |||||
Db 260 GGCCTGTGACCTGTTCGCGAGTGGGCACTGACTGCAAGAACTTA---CAACACGACGAGC 316

Oy 61 CGAGTACAGTGTATCCAGAC--AGACACATCCCCCGAAGAACTACCGCTGCTGGCCA 118
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Db      317 TGAGTACCAGGCGATCCCGGACAAATTAACCATCACACAGGAGATTATCGCTGTCGCC 376
Oy      119 TCCACACCAACGAGGAGACTGCTCTCTTCAAGTGTTCACCTGCTAGGCTGTGGAATGTC 178
Db      377 TCCACACCAACATGATGGCTGCTCTCTCTGTGTGTTCACCTGGCTGAGGCTGTAGATGTC 436
Oy      179 TGTGAGAGCCATGCGCCAGTGTGCGGACCTTGTGGTCAACAACGACGACCATGGACAGGT 238
Db      437 TGTGAGAGCCATGTTCATATGTCTGCTTTGTGTGTCAACAACGACCATCTGGACAGGT 496
Oy      239 GAGCAGCTGG 248
Db      497 CGGAGAGCTGG 506

RESULT 6
US-09-918-995-32213
; Sequence 32213, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32213
; LENGTH: 493
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1) .. (493)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-32213

Query Match      6.9%; Score 97; DB 11; Length 493;
Best Local Similarity 100.0%; Pred.No. 3.5e-15;
Matches 97; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 GGTGCTGCACTGTGACCGGAGCGGGCAGTATCTGCAGAACTCCAGGCAAGCAGCACTAC 60
Db      397 GGTGCTGCACTGTGACCGGAGCGGGCAGTATCTGCAGAACTCCAGGCAAGCAGCACTAC 456
Oy      61 CGAGTACCAGTGTATCCGACAGACGACCAATCCCCCAG 97
Db      457 CGAGTACCAGTGTATCCGACAGACGACCAATCCCCCAG 493

RESULT 7
US-10-006-285-33
; Sequence 33, Application US/10006285
; Publication No. US20030165854A1
; GENERAL INFORMATION:
; APPLICANT: Mary Jane Cunningham
; APPLICANT: Matthew R. Kaser
; TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
; FILE REFERENCE: PA-0039 US
; CURRENT APPLICATION NUMBER: US/10/006,285
; CURRENT FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 514
; SOFTWARE: PERL Program
; SEQ ID NO 33
; LENGTH: 250
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20030165854A1 700175249H1

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US-10-006-285-33

Query Match 5.2%; Score 72.2; DB 13; Length 250;
Best Local Similarity 63.6%; Pred. No. 8.3e-09;
Matches 110; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 590 GGGAGTACTTGCACCTGGCAGCAGCTGATCTACCTGGGAACCCCTGCAGACAAAGCTAA 649

DB 49 GGGTTTGGCTCTGCTGAGGCGTGAATTGCATAGCACCAGGAGACCTGCAAGACAGAGCTAG 108

QY 650 CATCCAGACAGACAGATGACAGGACCAAGCTGCAATTAATGCAATGTTAAATGT 709

DB 109 CGTCCAGACAGACAGATGATGACAGGACCAAGCTGCAATTAATGCAATGTTAAATGT 168

QY 710 GAGTTTACCAAGCTAGCTATGAGAGCTGCTGCTTCTAGTCCAGAAATCAGG 762

DB 169 GAGTTTCCAGAGCTTGGCTGCTAGAGCTGTTCTCCAGCTGAGCGTCACTGG 221

RESULT 8

US-09-960-352-10180/c
; Sequence 10180; Application US/09960352
; Patent No. US20020137139A1

; GENERAL INFORMATION:

; APPLICANT: Warren, Wesley C.

; APPLICANT: Byatt, John C.

; APPLICANT: Mathialagan, Nagappan

; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND

; FILE REFERENCE: 16511.006/37-21(10298)C

; CURRENT APPLICATION NUMBER: US/09/960,352

; NUMBER OF SEQ ID NOS: 15112

; SEQ ID NO 10180

; LENGTH: 428

; TYPE: DNA

; ORGANISM: Bos taurus

; OTHER INFORMATION: Clone ID: 44-LIB188-026-Q1-E1-C12

US-09-960-352-10180

Query Match 4.0%; Score 55.2; DB 10; Length 428;
Best Local Similarity 70.5%; Pred. No. 0.00038;
Matches 117; Conservative 0; Mismatches 43; Indels 6; Gaps 3;

QY 903 CTGCTGCTGCTGCTGCACATGCCACAGAGCGGTGGGGCTGCTGGGGACATCATC 962

DB 427 CTGCTGCTGCTGCTGCATGTCATGCGC--TCAGCAGGGGCGCGAGGGGACATCGTC 370

QY 963 GTGGAG--TGTTCTCTCAGCTTAAGTCTGAGCAGAGACTTGGGGGGGATGCTCCAGCA 1020

DB 369 ATGAGACAGCTTCTCTTAGCAGGCTCTTAGCGGAGACTTTGAA--GGATGCTCCAGA 312

QY 1021 TGTGGTGAATCTGTACTGAGGAGGCTATCTGACTCTCCGACA 1066

DB 311 TGTGGGGAATCTGTACTGAGGAGGCTATCTGACTCTCCGACA 266

RESULT 9

US-09-814-353-4739/c
; Sequence 4739; Application US/09814353
; Publication No. US20030155831A1

; GENERAL INFORMATION:

; APPLICANT: Lee, John

; APPLICANT: Thompson, Pamela

; APPLICANT: Lillie, James

; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR

; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND

; FILE REFERENCE: MRI-006B

; CURRENT APPLICATION NUMBER: US/09/814,353

; CURRENT FILING DATE: 2001-03-21

; PRIOR APPLICATION NUMBER: US 60/191,031

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: US 60/207,124

; PRIOR FILING DATE: 2000-05-25

; PRIOR APPLICATION NUMBER: US 60/211,940

; PRIOR FILING DATE: 2000-06-15

; PRIOR APPLICATION NUMBER: US 60/216,820

; PRIOR FILING DATE: 2000-07-07

; PRIOR APPLICATION NUMBER: US 60/220,661

; PRIOR FILING DATE: 2000-07-25

; PRIOR APPLICATION NUMBER: US 60/257,672

; PRIOR FILING DATE: 2000-12-21

; NUMBER OF SEQ ID NOS: 22037

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4739

; LENGTH: 664

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc.feature

; LOCATION: 377, 383, 386, 388, 390, 409, 429, 431, 433, 439, 447, 450,

; LOCATION: 452, 460, 462, 473, 474, 475, 477, 484, 486, 508, 509, 510,

; LOCATION: 511, 513, 514, 515, 518, 519, 520, 522, 525, 528, 530, 532,

; LOCATION: 533, 541, 542, 543, 544, 547, 550, 552, 561, 564, 570,

; OTHER INFORMATION: n = A,T,C or G

; FEATURE:

; NAME/KEY: misc.feature

; LOCATION: 573, 575, 578, 584, 600, 601, 603, 606, 607, 616, 623, 625,

; LOCATION: 626, 642

; OTHER INFORMATION: n = A,T,C or G

US-09-814-353-4739

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: US 60/207,124

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; PRIOR FILING DATE: 2000-07-25

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; SEQ ID NO 4739

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; ORGANISM: Homo sapiens

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; NAME/KEY: misc.feature

; LOCATION: 377, 383, 386, 388, 390, 409, 429, 431, 433, 439, 447, 450,

; LOCATION: 452, 460, 462, 473, 474, 475, 477, 484, 486, 508, 509, 510,

; LOCATION: 511, 513, 514, 515, 518, 519, 520, 522, 525, 528, 530, 532,

; LOCATION: 533, 541, 542, 543, 544, 547, 550, 552, 561, 564, 570,

; OTHER INFORMATION: n = A,T,C or G

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; LOCATION: 626, 642

; OTHER INFORMATION: n = A,T,C or G

US-09-814-353-4739

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: US 60/207,124

; PRIOR FILING DATE: 2000-05-25

; PRIOR APPLICATION NUMBER: US 60/211,940

Wed Dec 17 09:19:21 2003

us-09-989-919-15.rnpb

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Search completed: December 13, 2003, 20:13:19
Job time : 361 secs

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OM nucleic - nucleic search, using sw model

Run on: December 13, 2003, 19:07:47 ; Search time 80 Seconds
(Without alignments)
7707.653 Million cell updates/sec

Title: US-09-989-919-15

Perfect score: 1397
Sequence: 1 gggtgcgcacgtaccgga.....aaaaaaaaaagcgctc 1397

Scoring table: OLIGO_NTC
Gapop 60.0 , Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size : 0
Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

Database : Issued Patents_NA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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5	27	1.9	1817	2	US-08-474-087-5
6	27	1.9	2114	4	US-09-130-491-7
7	27	1.9	99500	4	US-09-798-096-10
8	27	1.9	511	4	US-09-328-475C-196
9	26	1.9	899	3	US-09-122-400B-11
10	26	1.9	1337	4	US-09-257-179-28
11	26	1.9	1509	4	US-09-620-312B-722
12	26	1.9	1569	4	US-09-482-273-51
13	26	1.9	1730	4	US-09-489-847-48
14	26	1.9	1758	3	US-08-836-567-3
15	26	1.9	1758	4	US-09-606-304-3
16	26	1.9	2093	5	US-08-287-001A-1
17	26	1.9	2093	5	PCT-US95-08941-1
18	26	1.9	2660	4	US-09-634-955B-1
19	26	1.9	3149	4	US-09-016-434-1453
20	26	1.9	3289	4	US-09-904-615-11
21	26	1.9	3891	2	US-08-969-630-3
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23	26	1.9	8912	4	US-08-468-446-11
24	26	1.9	8912	4	US-08-467-344A-11
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C 32	26	1.9	14753	4	US-09-821-736-3	Sequence 3, App1
C 33	26	1.9	46718	4	US-09-816-093-3	Sequence 3, App1
C 34	26	1.9	152331	3	US-09-128-155-16	Sequence 16, App1
C 35	26	1.9	176373	3	US-09-128-155-17	Sequence 17, App1
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C 37	25	1.8	58	2	US-08-231-565A-40	Sequence 40, App1
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C 49	25	1.8	611	3	US-09-385-982-357	Sequence 357, App
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C 78	25	1.8	1200	4	US-09-723-450-5	Sequence 5, App1
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C 83	25	1.8	1274	3	US-08-335-844A-13	Sequence 13, App1
C 84	25	1.8	1274	4	US-09-129-366-13	Sequence 13, App1
C 85	25	1.8	1280	4	US-09-220-132-135	Sequence 135, App
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C 95	25	1.8	1829	5	PCT-US96-10618-1	Sequence 1, App1
C 96	25	1.8	1921	3	US-08-840-767-51	Sequence 51, App1
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106	25	1.8	2672	1	US-08-703-947-1	Sequence 191, Appl	179	24	1.7	325	2	US-08-828-451-14	Sequence 14, Appl1
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111	25	1.8	2880	3	US-09-232-200-52	Sequence 52, Appl	184	24	1.7	361	2	US-08-486-397-39	Sequence 39, Appl
112	25	1.8	2907	4	US-09-232-197-52	Sequence 52, Appl	185	24	1.7	361	2	US-08-486-399-39	Sequence 39, Appl
113	25	1.8	2907	4	US-09-232-201-52	Sequence 52, Appl	186	24	1.7	361	2	US-08-461-965-39	Sequence 39, Appl
114	25	1.8	2917	3	US-09-232-200-26	Sequence 26, Appl	187	24	1.7	361	2	US-08-634-641-39	Sequence 39, Appl
115	25	1.8	2917	4	US-09-232-197-26	Sequence 26, Appl	188	24	1.7	361	3	US-09-249-471-39	Sequence 39, Appl
116	25	1.8	2917	4	US-09-232-201-26	Sequence 26, Appl	189	24	1.7	361	3	US-09-249-472-39	Sequence 39, Appl
117	25	1.8	3001	4	US-09-539-333D-153	Sequence 153, App	190	24	1.7	361	3	US-09-249-451-39	Sequence 39, Appl
118	25	1.8	3148	3	US-08-909-954-1	Sequence 1, Appl1	191	24	1.7	361	3	US-08-809-455-39	Sequence 39, Appl
119	25	1.8	4066	4	US-09-367-750-1	Sequence 1, Appl1	192	24	1.7	361	3	US-09-249-446-39	Sequence 39, Appl
120	25	1.8	4586	1	US-08-832-883-53	Sequence 53, Appl	193	24	1.7	361	4	US-09-249-448-39	Sequence 39, Appl
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124	25	1.8	4698	2	US-08-142-368A-5	Sequence 5, Appl1	197	24	1.7	374	3	US-09-385-982-494	Sequence 94, App
125	25	1.8	4698	2	US-08-967-727-5	Sequence 5, Appl1	198	24	1.7	433	1	US-07-987-272A-13	Sequence 13, Appl
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128	25	1.8	4698	4	US-09-579-197-5	Sequence 5, Appl1	201	24	1.7	487	4	US-09-328-475C-239	Sequence 239, App
129	25	1.8	4698	4	US-09-404-026-5	Sequence 1, Appl1	202	24	1.7	488	4	US-09-357-179-22	Sequence 22, Appl
130	25	1.8	4698	4	US-09-457-708-1	Sequence 1, Appl1	203	24	1.7	488	4	US-09-480-251-1	Sequence 1, Appl1
131	25	1.8	8600	4	US-09-457-708-1	Sequence 1, Appl1	204	24	1.7	499	4	US-09-328-475C-211	Sequence 211, App
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133	25	1.8	36741	3	US-09-301-665-3	Sequence 3, Appl1	206	24	1.7	500	3	US-09-124-698-82	Sequence 82, Appl
134	25	1.8	43795	3	US-08-742-185-101	Sequence 101, App	207	24	1.7	500	3	US-09-127-480-82	Sequence 82, Appl
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136	25	1.8	65042	4	US-09-784-316-3	Sequence 3, Appl1	209	24	1.7	500	3	US-08-496-841C-82	Sequence 82, Appl
137	25	1.8	66804	4	US-09-740-041-3	Sequence 3, Appl1	210	24	1.7	500	4	US-09-124-523-82	Sequence 82, Appl
138	25	1.8	92139	4	US-09-918-686-1	Sequence 1, Appl1	211	24	1.7	500	4	US-09-636-796B-82	Sequence 82, Appl
139	25	1.8	148567	4	US-09-801-876B-3	Sequence 3, Appl1	212	24	1.7	500	4	US-08-431-048B-82	Sequence 82, Appl
140	25	1.8	174493	4	US-09-804-471A-3	Sequence 3, Appl1	213	24	1.7	506	4	US-09-442-631-1	Sequence 1, Appl1
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148	24	1.7	48	1	US-08-380-438-6	Sequence 6, Appl1	221	24	1.7	611	4	US-09-205-258-109	Sequence 109, App
149	24	1.7	80	3	US-09-165-264-5	Sequence 5, Appl1	222	24	1.7	623	3	US-09-385-982-207	Sequence 207, App
150	24	1.7	80	3	US-09-165-264-6	Sequence 6, Appl1	223	24	1.7	628	4	US-09-227-357-104	Sequence 104, App
151	24	1.7	94	4	US-09-404-879A-261	Sequence 261, App	224	24	1.7	637	4	US-09-320-132-115	Sequence 115, App
152	24	1.7	94	4	US-09-338-933-261	Sequence 261, App	225	24	1.7	638	3	US-09-328-111-847	Sequence 847, App
153	24	1.7	94	4	US-09-215-681-861	Sequence 261, App	226	24	1.7	665	4	US-09-227-357-66	Sequence 66, Appl
154	24	1.7	104	2	US-08-803-899-8	Sequence 8, Appl1	227	24	1.7	700	1	US-08-463-115-38	Sequence 38, Appl
155	24	1.7	140	1	US-08-628-417-5	Sequence 5, Appl1	228	24	1.7	700	1	US-08-465-388-38	Sequence 38, Appl
156	24	1.7	153	3	US-09-244-794A-3	Sequence 3, Appl1	229	24	1.7	704	3	US-09-313-300-6	Sequence 6, Appl1
157	24	1.7	153	3	US-09-247-190-3	Sequence 3, Appl1	230	24	1.7	704	3	US-09-122-400B-8	Sequence 8, Appl1
158	24	1.7	153	3	US-09-238-710-3	Sequence 3, Appl1	231	24	1.7	719	1	US-08-375-346A-1	Sequence 1, Appl1
159	24	1.7	159	4	US-09-244-794A-17	Sequence 17, Appl	232	24	1.7	719	2	US-08-467-123B-1	Sequence 1, Appl1
160	24	1.7	159	4	US-09-247-190-17	Sequence 17, Appl	233	24	1.7	728	4	US-09-091-097-5	Sequence 5, Appl1
161	24	1.7	159	4	US-09-238-710-17	Sequence 17, Appl	234	24	1.7	735	3	US-08-950-720A-5	Sequence 5, Appl1
162	24	1.7	216	1	US-08-686-878A-34	Sequence 34, Appl	235	24	1.7	764	4	US-09-288-143-57	Sequence 57, Appl
163	24	1.7	216	4	US-09-175-928-34	Sequence 34, Appl	236	24	1.7	770	3	US-09-385-982-542	Sequence 542, App
164	24	1.7	229	4	US-09-702-705-195	Sequence 195, App	237	24	1.7	775	4	US-09-227-357-108	Sequence 108, App
165	24	1.7	229	4	US-09-736-457-195	Sequence 195, App	238	24	1.7	779	1	US-07-941-646-22	Sequence 22, Appl
166	24	1.7	240	1	US-08-628-417-6	Sequence 6, Appl1	239	24	1.7	779	1	US-08-147-023-22	Sequence 22, Appl
167	24	1.7	255	4	US-09-480-921B-26	Sequence 26, Appl	240	24	1.7	779	2	US-08-447-570-22	Sequence 22, Appl
168	24	1.7	255	3	US-09-385-982-187	Sequence 187, App	241	24	1.7	779	2	US-08-449-700-22	Sequence 22, Appl
169	24	1.7	256	3	US-09-385-982-387	Sequence 387, App	242	24	1.7	779	2	US-08-449-699A-22	Sequence 22, Appl
170	24	1.7	277	1	US-08-244-113-18	Sequence 18, Appl	243	24	1.7	779	4	US-09-148-925C-22	Sequence 22, Appl
171	24	1.7	288	2	US-08-648-496-1	Sequence 1, Appl1	244	24	1.7	779	4	US-08-957-425-22	Sequence 22, Appl
172	24	1.7	314	3	US-09-277-016-37	Sequence 37, Appl	245	24	1.7	780	4	US-09-328-475C-153	Sequence 153, App
173	24	1.7	314	4	US-09-883-548-7	Sequence 7, Appl1	246	24	1.7	790	3	US-09-363-970-4	Sequence 4, Appl1

247	24	1.7	807	2	US-08-531-927B-9	Sequence 9, Appl1	320	24	1.7	1265	1	US-08-712-702A-5	Sequence 5, Appl1
248	24	1.7	812	4	US-09-091-097-7	Sequence 7, Appl1	321	24	1.7	1279	3	US-09-277-771B-31	Sequence 31, Appl1
249	24	1.7	818	4	US-09-366-887A-15	Sequence 15, Appl1	322	24	1.7	1279	3	US-09-609-161B-31	Sequence 31, Appl1
250	24	1.7	819	4	US-09-288-143-18	Sequence 18, Appl1	323	24	1.7	1283	3	US-09-282-305-11	Sequence 11, Appl1
251	24	1.7	826	4	US-09-227-357-102	Sequence 102, App	324	24	1.7	1283	3	US-09-883-720-11	Sequence 11, Appl1
252	24	1.7	830	4	US-09-227-357-64	Sequence 64, Appl1	325	24	1.7	1291	4	US-09-904-615-17	Sequence 17, Appl1
253	24	1.7	830	4	US-09-227-357-147	Sequence 147, App	326	24	1.7	1292	4	US-09-904-615-61	Sequence 61, Appl1
254	24	1.7	831	4	US-09-904-615-25	Sequence 25, Appl1	327	24	1.7	1310	4	US-09-690-454-12	Sequence 12, Appl1
255	24	1.7	836	3	US-09-352-990-7	Sequence 7, Appl1	328	24	1.7	1315	3	US-09-164-193-1	Sequence 1, Appl1
256	24	1.7	848	4	US-09-370-838-160	Sequence 160, App	329	24	1.7	1315	4	US-09-221-448A-1	Sequence 1, Appl1
257	24	1.7	851	4	US-09-443-184-39	Sequence 39, Appl1	330	24	1.7	1326	2	US-08-671-320-12	Sequence 12, Appl1
258	24	1.7	865	4	US-09-227-357-148	Sequence 148, App	331	24	1.7	1326	2	US-08-868-577-12	Sequence 12, Appl1
259	24	1.7	867	4	US-09-227-357-65	Sequence 65, Appl1	332	24	1.7	1326	2	US-09-207-914-12	Sequence 12, Appl1
260	24	1.7	902	3	US-08-924-747-5	Sequence 5, Appl1	333	24	1.7	1332	2	US-09-057-762-1	Sequence 1, Appl1
261	24	1.7	902	3	US-09-247-373B-5	Sequence 5, Appl1	334	24	1.7	1332	2	US-08-326-119A-1	Sequence 1, Appl1
262	24	1.7	902	3	US-09-286-715-5	Sequence 5, Appl1	335	24	1.7	1333	4	US-09-584-568C-1	Sequence 1, Appl1
263	24	1.7	903	3	US-08-944-604-15	Sequence 15, Appl1	336	24	1.7	1333	4	US-09-372-422A-9	Sequence 9, Appl1
264	24	1.7	931	4	US-09-482-273-31	Sequence 31, Appl1	337	24	1.7	1350	4	US-09-149-476-248	Sequence 248, App
265	24	1.7	940	2	US-08-713-000-3	Sequence 3, Appl1	338	24	1.7	1355	4	US-09-599-360B-64	Sequence 64, Appl1
266	24	1.7	940	2	US-08-975-316-3	Sequence 3, Appl1	339	24	1.7	1361	4	US-09-489-847-64	Sequence 64, Appl1
267	24	1.7	940	3	US-09-211-710-3	Sequence 3, Appl1	340	24	1.7	1365	4	US-09-496-005-2	Sequence 2, Appl1
268	24	1.7	940	3	US-09-615-192A-3	Sequence 3, Appl1	341	24	1.7	1369	4	US-09-205-258-174	Sequence 174, App
269	24	1.7	944	4	US-09-227-357-122	Sequence 122, App	342	24	1.7	1373	3	US-08-725-758A-1	Sequence 1, Appl1
270	24	1.7	955	4	US-09-641-638-11	Sequence 11, Appl1	343	24	1.7	1374	4	US-08-123-761A-2	Sequence 2, Appl1
271	24	1.7	955	4	US-09-641-638-12	Sequence 12, Appl1	344	24	1.7	1375	4	US-09-372-422A-37	Sequence 37, Appl1
272	24	1.7	957	4	US-09-328-475C-12	Sequence 12, Appl1	345	24	1.7	1375	4	US-09-489-847-120	Sequence 120, App
273	24	1.7	965	4	US-09-220-132-154	Sequence 154, App	346	24	1.7	1376	4	US-09-489-847-66	Sequence 66, Appl1
274	24	1.7	991	4	US-09-369-247-52	Sequence 52, App	347	24	1.7	1389	4	US-09-227-357-142	Sequence 142, App
275	24	1.7	994	4	US-09-205-358-122	Sequence 122, App	348	24	1.7	1389	4	US-09-122-315C-9	Sequence 9, Appl1
276	24	1.7	1001	1	US-08-728-259A-10	Sequence 10, Appl1	349	24	1.7	1389	4	US-09-360-376-9	Sequence 9, Appl1
277	24	1.7	1001	2	US-08-473-886-10	Sequence 10, Appl1	350	24	1.7	1400	4	US-09-245-281-40	Sequence 40, Appl1
278	24	1.7	1001	4	US-09-641-638-360	Sequence 360, App	351	24	1.7	1400	4	US-09-207-359B-40	Sequence 40, Appl1
279	24	1.7	1001	4	US-09-641-638-361	Sequence 361, App	352	24	1.7	1400	4	US-09-340-620A-40	Sequence 40, Appl1
280	24	1.7	1001	4	US-09-641-638-362	Sequence 362, App	353	24	1.7	1411	3	US-08-964-127-5	Sequence 5, Appl1
281	24	1.7	1001	4	US-09-671-317-28	Sequence 28, Appl1	354	24	1.7	1411	4	US-09-496-692-5	Sequence 5, Appl1
282	24	1.7	1001	4	US-09-671-317-230	Sequence 230, App	355	24	1.7	1411	4	US-09-904-615-38	Sequence 38, Appl1
283	24	1.7	1001	4	US-09-671-317-231	Sequence 231, App	356	24	1.7	1411	4	US-10-000-273-5	Sequence 5, Appl1
284	24	1.7	1001	4	US-09-671-317-269	Sequence 269, App	357	24	1.7	1416	4	US-09-205-258-98	Sequence 98, Appl1
285	24	1.7	1013	1	US-07-920-519-30	Sequence 30, Appl1	358	24	1.7	1428	3	US-09-118-442-5	Sequence 5, Appl1
286	24	1.7	1013	1	US-08-086-410-23	Sequence 23, Appl1	359	24	1.7	1428	3	US-09-677-064-5	Sequence 5, Appl1
287	24	1.7	1013	1	US-08-314-586-30	Sequence 30, Appl1	360	24	1.7	1454	4	US-09-372-422A-19	Sequence 19, Appl1
288	24	1.7	1021	4	US-09-461-325-92	Sequence 92, Appl1	361	24	1.7	1458	4	US-09-482-273-14	Sequence 14, Appl1
289	24	1.7	1023	4	US-09-229-947-38	Sequence 38, Appl1	362	24	1.7	1461	5	US-08-722-126A-4	Sequence 4, Appl1
290	24	1.7	1024	4	US-09-328-475C-22	Sequence 22, Appl1	363	24	1.7	1461	5	PCT-US95-04258-4	Sequence 4, Appl1
291	24	1.7	1024	4	US-09-328-475C-26	Sequence 26, Appl1	364	24	1.7	1465	4	US-09-573-906-1	Sequence 1, Appl1
292	24	1.7	1027	4	US-09-674-741-9	Sequence 9, Appl1	365	24	1.7	1485	4	US-09-372-422A-39	Sequence 39, App
293	24	1.7	1032	4	US-09-257-179-21	Sequence 21, Appl1	366	24	1.7	1487	4	US-09-461-325-109	Sequence 109, App
294	24	1.7	1040	4	US-08-978-289-5	Sequence 5, Appl1	367	24	1.7	1502	2	US-08-651-940-1	Sequence 1, Appl1
295	24	1.7	1042	4	US-08-978-289-7	Sequence 7, Appl1	368	24	1.7	1502	4	US-09-295-029-1	Sequence 1, Appl1
296	24	1.7	1048	4	US-09-489-847-38	Sequence 38, Appl1	369	24	1.7	1505	2	US-08-909-965C-13	Sequence 13, Appl1
297	24	1.7	1051	3	US-09-245-041-10	Sequence 10, Appl1	370	24	1.7	1508	4	US-09-039-046-1	Sequence 1, Appl1
298	24	1.7	1053	4	US-09-257-179-31	Sequence 31, Appl1	371	24	1.7	1537	4	US-09-149-476-311	Sequence 311, App
299	24	1.7	1069	4	US-09-372-422A-7	Sequence 7, Appl1	372	24	1.7	1539	4	US-09-461-325-50	Sequence 50, Appl1
300	24	1.7	1071	4	US-09-205-258-118	Sequence 118, App	373	24	1.7	1540	3	US-08-977-001-2	Sequence 2, Appl1
301	24	1.7	1079	4	US-08-705-475E-98	Sequence 98, Appl1	374	24	1.7	1578	3	US-09-416-050A-1	Sequence 1, Appl1
302	24	1.7	1096	3	US-09-461-697-26	Sequence 26, Appl1	375	24	1.7	1578	3	US-09-664-800-1	Sequence 1, Appl1
303	24	1.7	1100	4	US-09-372-422A-47	Sequence 47, Appl1	376	24	1.7	1578	3	US-09-665-309-1	Sequence 1, Appl1
304	24	1.7	1105	2	US-08-394-152A-46	Sequence 46, Appl1	377	24	1.7	1578	3	US-09-661-569-1	Sequence 1, Appl1
305	24	1.7	1106	3	US-09-362-318-1	Sequence 1, Appl1	378	24	1.7	1599	1	US-08-143-219-27	Sequence 27, Appl1
306	24	1.7	1118	4	US-09-522-714-23	Sequence 23, Appl1	379	24	1.7	1620	3	US-08-985-950-11	Sequence 11, Appl1
307	24	1.7	1132	3	US-08-894-731-3	Sequence 3, Appl1	380	24	1.7	1620	4	US-09-546-049-11	Sequence 11, Appl1
308	24	1.7	1138	4	US-09-248-335-27	Sequence 27, Appl1	381	24	1.7	1624	2	US-08-852-807-10	Sequence 10, Appl1
309	24	1.7	1149	4	US-09-227-357-84	Sequence 84, Appl1	382	24	1.7	1631	4	US-09-051-239A-1	Sequence 1, Appl1
310	24	1.7	1153	4	US-09-372-458A-5	Sequence 5, Appl1	383	24	1.7	1651	4	US-09-465-558-49	Sequence 49, Appl1
311	24	1.7	1166	5	PCT-US96-112128B-1	Sequence 1, Appl1	384	24	1.7	1651	4	US-09-661-569-1	Sequence 1, Appl1
312	24	1.7	1193	4	US-09-372-422A-23	Sequence 23, Appl1	385	24	1.7	1659	4	US-09-320-132-172	Sequence 172, App
313	24	1.7	1196	4	US-09-399-588-3	Sequence 3, Appl1	386	24	1.7	1659	1	US-08-463-358-7	Sequence 7, Appl1
314	24	1.7	1198	3	US-09-248-335-27	Sequence 27, Appl1	387	24	1.7	1659	1	US-08-694-501-7	Sequence 7, Appl1
315	24	1.7	1230	4	US-09-461-325-80	Sequence 80, Appl1	388	24	1.7	1659	4	US-08-694-501-7	Sequence 7, Appl1
316	24	1.7	1238	1	US-09-359-247-50	Sequence 50, App	389	24	1.7	1661	4	US-09-436-521A-1	Sequence 124, App
317	24	1.7	1243	1	US-08-178-606-1	Sequence 1, Appl1	390	24	1.7	1661	4	US-09-464-535-43	Sequence 43, Appl1
318	24	1.7	1245	3	US-09-282-305-15	Sequence 15, Appl1	391	24	1.7	1664	1	US-07-863-169A-6	Sequence 6, Appl1
319	24	1.7	1265	4	US-09-883-720-15	Sequence 15, Appl1	392	24	1.7	1664	1	US-08-250-740-34	Sequence 34, Appl1

C 393	24	1.7	1664	1	US-07-695-472B-3	Sequence 3, Appl1	466	24	1.7	2047	4	US-09-832-312-1	Sequence 1, Appl1
394	24	1.7	1664	2	US-08-429-964-6	Sequence 6, Appl1	C 467	24	1.7	2048	1	US-07-602-608-11	Sequence 11, Appl1
395	24	1.7	1664	3	US-07-935-087-6	Sequence 6, Appl1	C 468	24	1.7	2048	1	US-08-261-578-11	Sequence 11, Appl1
C 396	24	1.7	1664	4	US-09-106-375-3	Sequence 3, Appl1	469	24	1.7	2073	4	US-09-173-300-3	Sequence 3, Appl1
C 397	24	1.7	1664	5	PCT-US93-08062-6	Sequence 6, Appl1	470	24	1.7	2084	4	US-09-205-258-234	Sequence 234, App
C 398	24	1.7	1670	3	US-08-709-838-1	Sequence 1, Appl1	471	24	1.7	2098	4	US-09-489-847-20	Sequence 20, Appl1
C 399	24	1.7	1670	3	US-08-829-839-1	Sequence 1, Appl1	472	24	1.7	2101	4	US-08-190-204-1	Sequence 1, Appl1
C 400	24	1.7	1674	4	US-09-482-273-78	Sequence 78, Appl1	473	24	1.7	2119	2	US-08-381-691-17	Sequence 17, Appl1
C 401	24	1.7	1681	4	US-09-461-325-115	Sequence 115, App	474	24	1.7	2126	3	US-09-237-543-1	Sequence 1, Appl1
C 402	24	1.7	1681	4	US-09-053-374A-4	Sequence 4, Appl1	475	24	1.7	2126	4	US-09-644-450-1	Sequence 1, Appl1
403	24	1.7	1693	6	5169835-3	Patent No. 5169835	476	24	1.7	2202	4	US-09-396-149-3	Sequence 3, Appl1
404	24	1.7	1697	4	US-09-345-473E-7	Sequence 7, Appl1	477	24	1.7	2203	4	US-09-801-861-1	Sequence 1, Appl1
405	24	1.7	1700	2	US-08-897-340-4	Sequence 4, Appl1	478	24	1.7	2205	3	US-08-888-077A-41	Sequence 41, Appl1
406	24	1.7	1700	3	US-09-252-329-4	Sequence 4, Appl1	479	24	1.7	2217	3	US-09-244-314-1	Sequence 1, Appl1
407	24	1.7	1702	3	US-09-413-574-3	Sequence 3, Appl1	480	24	1.7	2217	4	US-09-498-959-1	Sequence 1, Appl1
408	24	1.7	1708	4	US-09-461-325-108	Sequence 108, App	481	24	1.7	2218	2	US-08-985-090-4	Sequence 4, Appl1
409	24	1.7	1722	4	US-09-482-273-102	Sequence 102, App	482	24	1.7	2218	3	US-09-165-543-31	Sequence 31, Appl1
410	24	1.7	1723	4	US-09-461-325-98	Sequence 98, Appl1	483	24	1.7	2222	3	US-09-197-380-1	Sequence 1, Appl1
411	24	1.7	1728	3	US-08-985-950-7	Sequence 7, Appl1	484	24	1.7	2235	4	US-09-569-804-20	Sequence 20, Appl1
412	24	1.7	1728	4	US-09-546-049-7	Sequence 7, Appl1	485	24	1.7	2241	4	US-09-581-831-1	Sequence 1, Appl1
413	24	1.7	1733	3	US-09-073-569-1	Sequence 1, Appl1	486	24	1.7	2241	4	US-09-023-942A-9	Sequence 9, Appl1
414	24	1.7	1734	4	US-08-630-915A-23	Sequence 23, Appl1	487	24	1.7	2242	4	US-09-482-273-35	Sequence 35, Appl1
415	24	1.7	1753	4	US-09-149-476-56	Sequence 56, Appl1	488	24	1.7	2271	4	US-09-205-258-243	Sequence 243, App
416	24	1.7	1776	2	US-08-531-927B-1	Sequence 1, Appl1	489	24	1.7	2274	4	US-09-388-743-17	Sequence 17, Appl1
417	24	1.7	1776	3	US-09-041-886-12	Sequence 12, Appl1	490	24	1.7	2276	4	US-09-205-258-183	Sequence 183, App
418	24	1.7	1776	4	US-09-149-476-59	Sequence 59, Appl1	491	24	1.7	2295	2	US-08-842-842-6	Sequence 6, Appl1
419	24	1.7	1785	2	US-08-975-316-48	Sequence 48, Appl1	492	24	1.7	2295	4	US-09-052-521C-1	Sequence 1, Appl1
420	24	1.7	1785	4	US-09-615-192A-48	Sequence 48, Appl1	493	24	1.7	2306	1	US-08-484-105-9	Sequence 9, Appl1
421	24	1.7	1787	4	US-09-461-325-35	Sequence 35, Appl1	494	24	1.7	2306	1	US-08-484-105-9	Sequence 9, Appl1
422	24	1.7	1796	4	US-09-470-175-1	Sequence 1, Appl1	495	24	1.7	2311	4	US-09-624-693A-14	Sequence 14, Appl1
423	24	1.7	1799	3	US-09-329-633A-1	Sequence 1, Appl1	496	24	1.7	2338	3	US-09-332-200-66	Sequence 66, Appl1
424	24	1.7	1799	4	US-09-079-029-2	Sequence 2, Appl1	497	24	1.7	2338	4	US-09-232-197-66	Sequence 66, Appl1
425	24	1.7	1810	5	PCT-US94-12883-3	Sequence 11, Appl1	498	24	1.7	2338	4	US-09-232-201-66	Sequence 66, Appl1
426	24	1.7	1813	5	PCT-US94-12883-3	Sequence 3, Appl1	499	24	1.7	2343	2	US-09-031-392-1	Sequence 1, Appl1
427	24	1.7	1825	3	US-09-461-697-75	Sequence 75, Appl1	500	24	1.7	2343	3	US-09-299-549-1	Sequence 1, Appl1
428	24	1.7	1831	4	US-09-336-536-15	Sequence 15, Appl1	501	24	1.7	2343	4	US-09-610-417-1	Sequence 1, Appl1
429	24	1.7	1858	4	US-09-336-536-56	Sequence 56, Appl1	502	24	1.7	2367	1	US-08-441-139-3	Sequence 3, Appl1
430	24	1.7	1880	4	US-09-564-808-1	Sequence 1, Appl1	503	24	1.7	2378	4	US-08-802-805D-20	Sequence 20, Appl1
431	24	1.7	1895	2	US-08-967-101-165	Sequence 165, App	504	24	1.7	2378	4	US-08-860-370-1	Sequence 1, Appl1
432	24	1.7	1895	2	US-08-592-541-165	Sequence 165, App	505	24	1.7	2405	1	US-08-454-097-30	Sequence 30, Appl1
433	24	1.7	1895	3	US-08-888-077A-20	Sequence 20, Appl1	506	24	1.7	2405	3	US-08-185-359-30	Sequence 30, Appl1
434	24	1.7	1895	3	US-09-124-698-165	Sequence 165, App	507	24	1.7	2405	4	US-09-149-476-241	Sequence 241, App
435	24	1.7	1895	3	US-09-127-480-165	Sequence 165, App	508	24	1.7	2454	3	US-09-221-235-7	Sequence 7, Appl1
436	24	1.7	1895	4	US-09-124-523-165	Sequence 165, App	509	24	1.7	2454	3	US-09-221-928-7	Sequence 7, Appl1
437	24	1.7	1895	4	US-09-636-796A-165	Sequence 165, App	510	24	1.7	2454	3	US-09-221-527-7	Sequence 7, Appl1
438	24	1.7	1898	1	US-08-342-411A-1	Sequence 1, Appl1	511	24	1.7	2454	3	US-09-221-326-7	Sequence 7, Appl1
439	24	1.7	1902	4	US-09-620-312D-862	Sequence 862, App	512	24	1.7	2454	3	US-09-221-416-7	Sequence 7, Appl1
440	24	1.7	1907	4	US-09-205-258-108	Sequence 108, App	513	24	1.7	2454	3	US-09-221-245-7	Sequence 7, Appl1
441	24	1.7	1910	4	US-09-517-467B-7	Sequence 7, Appl1	514	24	1.7	2454	3	US-09-163-115-7	Sequence 7, Appl1
442	24	1.7	1926	3	US-08-836-567-5	Sequence 5, Appl1	515	24	1.7	2454	3	US-09-221-528-7	Sequence 7, Appl1
443	24	1.7	1926	4	US-09-606-304-5	Sequence 5, Appl1	516	24	1.7	2454	3	US-09-593-553-7	Sequence 7, Appl1
444	24	1.7	1930	4	US-08-987-367-1	Sequence 1, Appl1	517	24	1.7	2454	3	US-09-221-237-7	Sequence 7, Appl1
445	24	1.7	1949	4	US-09-461-325-56	Sequence 26, Appl1	518	24	1.7	2460	3	US-08-964-127-1	Sequence 1, Appl1
446	24	1.7	1964	1	US-08-132-168A-31	Sequence 31, Appl1	519	24	1.7	2460	4	US-09-496-692-1	Sequence 1, Appl1
447	24	1.7	1964	3	US-08-468-856A-7	Sequence 7, Appl1	520	24	1.7	2460	4	US-10-000-273-1	Sequence 1, Appl1
448	24	1.7	1964	3	US-08-468-859A-7	Sequence 7, Appl1	521	24	1.7	2559	4	US-09-118-408-43	Sequence 43, Appl1
449	24	1.7	1969	1	US-07-937-609-28	Sequence 28, Appl1	522	24	1.7	2559	4	US-09-506-855-43	Sequence 43, Appl1
450	24	1.7	1969	3	US-08-029-170-8	Sequence 83, Appl1	523	24	1.7	2559	4	US-09-506-855-43	Sequence 43, Appl1
451	24	1.7	1977	3	US-09-227-357-83	Sequence 83, Appl1	524	24	1.7	2559	4	US-09-619-740-43	Sequence 43, Appl1
452	24	1.7	1979	4	US-09-461-325-50	Sequence 30, Appl1	525	24	1.7	2561	2	US-09-506-852-43	Sequence 1, Appl1
453	24	1.7	2000	4	US-09-439-313-374	Sequence 374, App	526	24	1.7	2561	4	US-09-013-634-1	Sequence 1, Appl1
454	24	1.7	2000	4	US-09-352-616A-374	Sequence 374, App	527	24	1.7	2561	4	US-09-369-247-51	Sequence 51, Appl1
455	24	1.7	2000	4	US-09-289-198-302	Sequence 302, App	528	24	1.7	2562	4	US-08-557-006C-39	Sequence 39, Appl1
456	24	1.7	2006	4	US-09-489-847-58	Sequence 28, Appl1	529	24	1.7	2658	2	US-08-592-383-3	Sequence 3, Appl1
457	24	1.7	2013	4	US-09-556-196-3	Sequence 3, Appl1	530	24	1.7	2676	1	US-08-471-570-7	Sequence 7, Appl1
458	24	1.7	2024	4	US-09-149-476-83	Sequence 83, Appl1	531	24	1.7	2677	4	US-09-489-847-57	Sequence 57, Appl1
459	24	1.7	2026	2	US-08-993-228-3	Sequence 3, Appl1	532	24	1.7	2719	3	US-08-706-216-1	Sequence 24, Appl1
460	24	1.7	2030	3	US-08-706-216-3	Sequence 3, Appl1	C 533	24	1.7	2751	3	US-08-557-006C-24	Sequence 24, Appl1
461	24	1.7	2040	4	US-09-439-313-375	Sequence 375, App	534	24	1.7	2780	4	US-09-489-847-87	Sequence 87, Appl1
462	24	1.7	2040	4	US-09-352-616A-375	Sequence 375, App	535	24	1.7	2793	3	US-08-836-567-7	Sequence 7, Appl1
463	24	1.7	2047	4	US-09-289-198-303	Sequence 303, App	536	24	1.7	2793	4	US-09-606-304-7	Sequence 7, Appl1
464	24	1.7	2047	3	US-09-345-468-1	Sequence 1, Appl1	537	24	1.7	2852	4	US-09-027-137-2	Sequence 2, Appl1
465	24	1.7	2047	4	US-09-414-453A-1	Sequence 1, Appl1	538	24	1.7	2852	3	US-09-063-950-1	Sequence 1, Appl1

539	24	1.7	2852	4	US-09-344-441-2	Sequence 2, Appl1	612	24	1.7	6028	4	US-09-362-336A-3	Sequence 3, Appl1
540	24	1.7	2932	3	US-08-999-774A-5	Sequence 5, Appl1	613	24	1.7	6409	4	US-09-967-908A-1	Sequence 1, Appl1
541	24	1.7	2940	2	US-08-592-383-1	Sequence 1, Appl1	614	24	1.7	7970	4	US-09-193-707-6	Sequence 6, Appl1
542	24	1.7	2940	4	US-09-773-426A-6	Sequence 6, Appl1	615	24	1.7	8083	3	US-09-383-630-4	Sequence 4, Appl1
543	24	1.7	2940	6	5171671-1	Patent No. 5171671	616	24	1.7	8083	3	US-09-383-630-5	Sequence 5, Appl1
544	24	1.7	3001	4	US-09-539-3330-187	Sequence 187, App	617	24	1.7	9278	1	US-08-243-542-9	Sequence 9, Appl1
545	24	1.7	3073	4	US-09-620-3120-279	Sequence 279, App	618	24	1.7	9278	1	US-08-477-407-9	Sequence 9, Appl1
546	24	1.7	3227	3	US-08-372-892-3	Sequence 3, Appl1	619	24	1.7	9278	1	US-08-484-355-9	Sequence 9, Appl1
547	24	1.7	3244	3	US-09-165-543-4	Sequence 4, Appl1	620	24	1.7	9521	4	US-08-972-218-2	Sequence 2, Appl1
548	24	1.7	3252	3	US-09-118-442-1	Sequence 1, Appl1	621	24	1.7	9521	4	US-09-193-707-2	Sequence 2, Appl1
549	24	1.7	3252	3	US-09-677-064-1	Sequence 1, Appl1	622	24	1.7	9551	1	US-08-056-200-93	Sequence 93, Appl1
550	24	1.7	3252	4	US-09-604-608-1	Sequence 1, Appl1	623	24	1.7	9551	2	US-08-800-644-93	Sequence 93, Appl1
551	24	1.7	3254	1	US-08-372-892-1	Sequence 1, Appl1	624	24	1.7	9589	1	US-07-925-695-1	Sequence 1, Appl1
552	24	1.7	3291	3	US-09-318-448-12	Sequence 12, Appl1	625	24	1.7	9589	1	US-07-925-695-2	Sequence 2, Appl1
553	24	1.7	3328	1	US-08-159-340A-1	Sequence 1, Appl1	626	24	1.7	9934	3	US-08-972-171-2	Sequence 2, Appl1
554	24	1.7	3338	4	US-09-489-847-117	Sequence 117, App	627	24	1.7	9951	4	US-09-193-707-3	Sequence 3, Appl1
555	24	1.7	3355	1	US-08-405-392-1	Sequence 1, Appl1	628	24	1.7	10524	4	US-09-193-707-4	Sequence 4, Appl1
556	24	1.7	3385	3	US-08-487-691-1	Sequence 1, Appl1	629	24	1.7	11282	4	US-09-733-042-1	Sequence 1, Appl1
557	24	1.7	3385	3	US-08-666-221B-9	Sequence 3, Appl1	630	24	1.7	11927	4	US-09-193-707-5	Sequence 5, Appl1
558	24	1.7	3385	3	US-08-666-221B-9	Sequence 9, Appl1	631	24	1.7	13574	2	US-08-852-807-1	Sequence 1, Appl1
559	24	1.7	3385	4	US-08-189-738A-1	Sequence 1, Appl1	632	24	1.7	13905	4	US-08-972-218-1	Sequence 1, Appl1
560	24	1.7	3426	1	US-08-205-018-1	Sequence 1, Appl1	633	24	1.7	13905	4	US-09-193-707-1	Sequence 1, Appl1
561	24	1.7	3431	4	US-09-155-078-1	Sequence 1, Appl1	634	24	1.7	21784	4	US-09-820-002-3	Sequence 3, Appl1
562	24	1.7	3433	4	US-09-130-491-3	Sequence 3, Appl1	635	24	1.7	32042	4	US-09-245-285-44	Sequence 44, Appl1
563	24	1.7	3527	2	US-08-909-965C-7	Sequence 7, Appl1	636	24	1.7	32042	4	US-09-340-620A-63	Sequence 63, Appl1
564	24	1.7	3571	4	US-09-564-595D-34	Sequence 34, Appl1	637	24	1.7	35060	3	US-08-814-095-7	Sequence 7, Appl1
565	24	1.7	3571	4	US-09-706-968-42	Sequence 42, Appl1	638	24	1.7	35628	4	US-09-449-218D-17	Sequence 17, Appl1
566	24	1.7	3573	4	US-09-457-066-42	Sequence 42, Appl1	639	24	1.7	35628	4	US-09-449-218D-17	Sequence 17, Appl1
567	24	1.7	3596	2	US-08-779-801-5	Sequence 5, Appl1	640	24	1.7	35828	4	US-09-668-528A-17	Sequence 17, Appl1
568	24	1.7	3596	4	US-09-298-441-5	Sequence 5, Appl1	641	24	1.7	35828	4	US-09-668-528A-17	Sequence 17, Appl1
569	24	1.7	3632	2	US-08-779-801-3	Sequence 3, Appl1	642	24	1.7	35828	4	US-09-668-037A-17	Sequence 17, Appl1
570	24	1.7	3632	4	US-09-298-441-3	Sequence 3, Appl1	643	24	1.7	35828	4	US-09-668-037A-17	Sequence 17, Appl1
571	24	1.7	3632	4	US-09-298-441-3	Sequence 3, Appl1	644	24	1.7	36651	4	US-09-738-89A-3	Sequence 3, Appl1
572	24	1.7	3632	4	US-09-298-441-3	Sequence 3, Appl1	645	24	1.7	36651	4	US-09-964-463-3	Sequence 3, Appl1
573	24	1.7	3635	1	US-08-091-569-1	Sequence 1, Appl1	646	24	1.7	38844	4	US-09-734-675-3	Sequence 3, Appl1
574	24	1.7	3695	1	US-08-203-676-1	Sequence 1, Appl1	647	24	1.7	39398	4	US-09-780-042-18	Sequence 18, Appl1
575	24	1.7	3695	2	US-08-822-238-1	Sequence 1, Appl1	648	24	1.7	40000	4	US-09-780-042-18	Sequence 18, Appl1
576	24	1.7	3829	2	US-08-631-097-8	Sequence 8, Appl1	649	24	1.7	40328	3	US-08-742-188-102	Sequence 102, App
577	24	1.7	3829	3	US-08-810-712-6	Sequence 6, Appl1	650	24	1.7	40352	3	US-08-846-111D-15	Sequence 15, Appl1
578	24	1.7	4055	4	US-09-620-312D-706	Sequence 706, App	651	24	1.7	40352	4	US-09-443-077-15	Sequence 15, Appl1
579	24	1.7	4137	3	US-09-221-835-1	Sequence 1, Appl1	652	24	1.7	43069	4	US-09-292-542A-1	Sequence 1, Appl1
580	24	1.7	4137	3	US-09-221-928-1	Sequence 1, Appl1	653	24	1.7	43069	4	US-09-292-542A-1	Sequence 1, Appl1
581	24	1.7	4137	3	US-09-221-527-1	Sequence 1, Appl1	654	24	1.7	43950	4	US-09-735-934A-3	Sequence 3, Appl1
582	24	1.7	4137	3	US-09-221-336-1	Sequence 1, Appl1	655	24	1.7	43950	4	US-09-735-934A-3	Sequence 3, Appl1
583	24	1.7	4137	3	US-09-221-416-1	Sequence 1, Appl1	656	24	1.7	43950	4	US-10-060-332-3	Sequence 3, Appl1
584	24	1.7	4137	3	US-09-221-845-1	Sequence 1, Appl1	657	24	1.7	43950	4	US-10-060-332-3	Sequence 3, Appl1
585	24	1.7	4137	3	US-09-163-115-1	Sequence 1, Appl1	658	24	1.7	46718	4	US-09-816-093-3	Sequence 3, Appl1
586	24	1.7	4137	3	US-09-221-528-1	Sequence 1, Appl1	659	24	1.7	49312	4	US-09-671-317-485	Sequence 485, App
587	24	1.7	4137	3	US-09-593-553-1	Sequence 1, Appl1	660	24	1.7	50000	4	US-09-146-053-3	Sequence 3, Appl1
588	24	1.7	4137	3	US-09-321-237-1	Sequence 1, Appl1	661	24	1.7	59065	4	US-09-813-817-3	Sequence 3, Appl1
589	24	1.7	4141	4	US-09-245-281-42	Sequence 42, Appl1	662	24	1.7	59065	4	US-09-978-197-3	Sequence 3, Appl1
590	24	1.7	4141	4	US-09-207-3598-42	Sequence 42, Appl1	663	24	1.7	62804	4	US-09-800-960-3	Sequence 3, Appl1
591	24	1.7	4141	4	US-09-340-620A-42	Sequence 42, Appl1	664	24	1.7	64467	4	US-09-803-671B-3	Sequence 3, Appl1
592	24	1.7	4244	4	US-09-620-312D-151	Sequence 151, App	665	24	1.7	70000	4	US-09-851-896-3	Sequence 3, Appl1
593	24	1.7	4302	4	US-09-245-281-38	Sequence 38, Appl1	666	24	1.7	70000	4	US-09-851-896-3	Sequence 3, Appl1
594	24	1.7	4302	4	US-09-207-3598-38	Sequence 38, Appl1	667	24	1.7	75395	4	US-09-984-899-3	Sequence 3, Appl1
595	24	1.7	4302	4	US-09-340-620A-38	Sequence 38, Appl1	668	24	1.7	80246	3	US-09-078-294-4	Sequence 4, Appl1
596	24	1.7	4665	3	US-08-948-378A-7	Sequence 7, Appl1	669	24	1.7	81001	4	US-09-750-580-1	Sequence 1, Appl1
597	24	1.7	4665	3	US-09-169-425C-7	Sequence 7, Appl1	670	24	1.7	90841	4	US-09-759-359A-3	Sequence 3, Appl1
598	24	1.7	4665	4	US-09-759-960-7	Sequence 7, Appl1	671	24	1.7	11232	4	US-09-741-150-3	Sequence 3, Appl1
599	24	1.7	4741	1	US-07-695-472B-4	Sequence 4, Appl1	672	24	1.7	116592	4	US-09-818-512-3	Sequence 3, Appl1
600	24	1.7	4741	4	US-09-106-375-4	Sequence 4, Appl1	673	24	1.7	148567	4	US-09-801-876B-3	Sequence 3, Appl1
601	24	1.7	4742	1	US-08-250-740-35	Sequence 35, Appl1	674	24	1.7	162450	4	US-09-345-882-1	Sequence 1, Appl1
602	24	1.7	4781	2	US-09-001-273-1	Sequence 1, Appl1	675	24	1.7	162450	4	US-09-345-882-1	Sequence 1, Appl1
603	24	1.7	4781	3	US-08-843-459A-1	Sequence 1, Appl1	676	24	1.7	168755	4	US-09-426-290-1	Sequence 1, Appl1
604	24	1.7	4847	3	US-09-061-400-1	Sequence 1, Appl1	677	24	1.7	168755	4	US-09-426-290-1	Sequence 1, Appl1
605	24	1.7	5448	4	US-09-620-312D-246	Sequence 246, App	678	24	1.7	176373	3	US-09-128-155-17	Sequence 17, Appl1
606	24	1.7	5452	4	US-09-620-312D-245	Sequence 245, App	679	24	1.7	246240	2	US-08-724-394A-20	Sequence 20, Appl1
607	24	1.7	5847	4	US-09-920-672-10	Sequence 10, Appl1	680	24	1.7	246240	2	US-08-724-394A-21	Sequence 21, Appl1
608	24	1.7	5874	4	US-09-844-634-98	Sequence 98, Appl1	681	24	1.7	246240	2	US-08-724-394A-22	Sequence 22, Appl1
609	24	1.7	5965	4	US-09-362-336A-1	Sequence 1, Appl1	682	24	1.6	26	1	US-08-621-91A-1	Sequence 1, Appl1
610	24	1.7	5993	3	US-09-383-630-1	Sequence 1, Appl1	683	24	1.6	26	4	US-09-522-217-38	Sequence 38, Appl1
611	24	1.7	5993	3	US-09-383-630-2	Sequence 2, Appl1	684	24	1.6	26	4	US-09-527-345-7	Sequence 7, Appl1

C 685	23	1.6	27	4	US-09-475-947A-153	Sequence 153, App	758	23	1.6	64	1	US-08-055-390-10	Sequence 10, Appl
C 686	23	1.6	33	3	US-09-061-026-26	Sequence 26, Appl	C 759	23	1.6	65	4	US-09-415-788A-32	Sequence 32, Appl
C 687	23	1.6	33	3	US-09-466-138-26	Sequence 26, Appl	C 760	23	1.6	65	4	US-09-415-788A-32	Sequence 32, Appl
C 688	23	1.6	33	6	5478746-1	Patent No. 5478746	C 761	23	1.6	65	4	US-08-944-465-32	Sequence 32, Appl
C 689	23	1.6	37	3	US-08-113-646A-38	Sequence 38, Appl	C 762	23	1.6	65	4	US-09-415-866-32	Sequence 32, Appl
C 690	23	1.6	38	3	US-09-120-386-3	Sequence 3, Appl1	C 763	23	1.6	66	4	US-09-183-636-1	Sequence 1, Appl1
C 691	23	1.6	38	3	US-09-120-501-3	Sequence 3, Appl1	C 764	23	1.6	67	2	US-08-972-425-1	Sequence 1, Appl1
C 692	23	1.6	38	4	US-09-120-689-3	Sequence 3, Appl1	C 765	23	1.6	67	3	US-09-337-944-1	Sequence 1, Appl1
C 693	23	1.6	38	4	US-09-720-201A-19	Sequence 19, Appl	C 766	23	1.6	67	3	US-09-620-958A-6	Sequence 6, Appl1
C 694	23	1.6	40	3	US-09-306-290-8	Sequence 8, Appl1	C 767	23	1.6	80	4	US-09-284-627-15	Sequence 15, Appl
C 695	23	1.6	40	3	US-09-306-290-35	Sequence 35, Appl1	C 768	23	1.6	80	4	US-09-065-056-16	Sequence 16, Appl
C 696	23	1.6	41	3	US-08-113-646A-39	Sequence 39, Appl	C 769	23	1.6	90	3	US-09-404-879A-201	Sequence 201, App
C 697	23	1.6	41	3	US-08-906-156A-89	Sequence 89, Appl	C 770	23	1.6	91	4	US-09-318-923-201	Sequence 201, App
C 698	23	1.6	41	4	US-09-920-581A-9	Sequence 9, Appl1	C 771	23	1.6	91	4	US-09-215-681-201	Sequence 201, App
C 699	23	1.6	41	4	US-09-920-581A-9	Sequence 9, Appl1	C 772	23	1.6	92	1	US-08-120-827-94	Sequence 94, Appl
C 700	23	1.6	42	1	US-07-875-167-2	Sequence 2, Appl1	C 773	23	1.6	92	1	US-08-478-675-94	Sequence 94, Appl
C 701	23	1.6	42	1	US-08-287-164-2	Sequence 2, Appl1	C 774	23	1.6	100	3	US-08-991-788A-30	Sequence 30, Appl
C 702	23	1.6	43	2	US-08-975-902-17	Sequence 17, Appl	C 775	23	1.6	100	4	US-09-062-451-30	Sequence 30, Appl
C 703	23	1.6	43	3	US-09-251-565-17	Sequence 17, Appl	C 776	23	1.6	100	4	US-09-598-326-30	Sequence 30, Appl
C 704	23	1.6	43	4	US-09-165-239A-5	Sequence 5, Appl1	C 777	23	1.6	100	4	US-09-289-198-30	Sequence 293, App
C 705	23	1.6	44	1	US-08-113-646A-40	Sequence 40, Appl	C 778	23	1.6	101	4	US-09-404-879A-293	Sequence 293, App
C 706	23	1.6	44	2	US-08-778-494B-114	Sequence 114, App	C 779	23	1.6	101	4	US-09-338-933-293	Sequence 293, App
C 707	23	1.6	47	3	US-09-338-907-198	Sequence 198, App	C 780	23	1.6	101	4	US-09-215-681-293	Sequence 293, App
C 708	23	1.6	47	3	US-09-338-907-275	Sequence 275, App	C 781	23	1.6	101	3	US-08-746-111-37	Sequence 37, Appl
C 709	23	1.6	47	4	US-09-218-207-198	Sequence 198, App	C 782	23	1.6	105	3	US-09-284-627-23	Sequence 23, Appl
C 710	23	1.6	47	4	US-09-218-207-275	Sequence 275, App	C 783	23	1.6	105	4	US-08-120-827-82	Sequence 82, Appl
C 711	23	1.6	47	4	US-09-453-190B-12	Sequence 12, Appl	C 784	23	1.6	109	1	US-08-478-675-82	Sequence 82, Appl
C 712	23	1.6	47	4	US-09-619-103-10	Sequence 10, Appl	C 785	23	1.6	109	1	US-09-367-927A-1	Sequence 1, Appl1
C 713	23	1.6	48	1	US-08-741-881-21	Sequence 21, Appl	C 786	23	1.6	113	4	US-08-120-827-99	Sequence 99, Appl
C 714	23	1.6	48	1	US-08-739-158-21	Sequence 21, Appl	C 787	23	1.6	114	1	US-08-478-675-99	Sequence 99, Appl
C 715	23	1.6	48	2	US-08-739-167-21	Sequence 21, Appl	C 788	23	1.6	114	1	US-08-153-051B-28	Sequence 28, Appl
C 716	23	1.6	48	3	US-08-404-796-21	Sequence 21, Appl	C 789	23	1.6	120	1	US-08-060-952A-44	Sequence 44, Appl
C 717	23	1.6	48	3	US-08-921-869-21	Sequence 21, Appl	C 790	23	1.6	120	2	US-08-151-477A-38	Sequence 38, Appl
C 718	23	1.6	48	4	US-09-350-399-21	Sequence 21, Appl	C 791	23	1.6	120	3	US-08-819-867-58	Sequence 58, Appl
C 719	23	1.6	48	4	US-09-236-140A-21	Sequence 21, Appl	C 792	23	1.6	120	3	US-08-464-011B-44	Sequence 44, Appl
C 720	23	1.6	50	1	US-08-233-609-5	Sequence 5, Appl1	C 793	23	1.6	120	4	US-09-378-535-58	Sequence 58, Appl
C 721	23	1.6	50	1	US-08-381-572-20	Sequence 20, Appl	C 794	23	1.6	128	4	US-09-183-266A-10	Sequence 10, Appl
C 722	23	1.6	50	1	US-08-444-083-5	Sequence 5, Appl1	C 795	23	1.6	130	6	5198345-15	Patent No. 5198345
C 723	23	1.6	50	1	US-08-286-304-5	Sequence 5, Appl1	C 796	23	1.6	132	4	US-09-702-705-1074	Sequence 1074, Ap
C 724	23	1.6	50	1	US-08-442-745-5	Sequence 5, Appl1	C 797	23	1.6	132	4	US-09-736-457-1074	Sequence 1074, Ap
C 725	23	1.6	50	1	US-08-443-129-5	Sequence 5, Appl1	C 798	23	1.6	141	3	US-08-737-078A-1	Sequence 1, Appl1
C 726	23	1.6	50	1	US-08-443-952-5	Sequence 5, Appl1	C 799	23	1.6	141	3	PCT-US94-04706-1	Sequence 26, Appl
C 727	23	1.6	50	1	US-08-443-130-5	Sequence 5, Appl1	C 800	23	1.6	141	5	US-08-702-344-26	Sequence 26, Appl
C 728	23	1.6	50	1	US-08-592-820-20	Sequence 20, Appl	C 801	23	1.6	144	4	US-09-702-705-776	Sequence 776, App
C 729	23	1.6	50	2	US-08-663-823B-72	Sequence 72, Appl	C 802	23	1.6	144	4	US-09-736-457-776	Sequence 776, App
C 730	23	1.6	50	3	US-08-898-911-5	Sequence 5, Appl1	C 803	23	1.6	165	2	US-08-783-395-3	Sequence 3, Appl1
C 731	23	1.6	50	5	PCT-US95-04467-5	Sequence 5, Appl1	C 804	23	1.6	165	2	US-08-924-838-9	Sequence 9, Appl1
C 732	23	1.6	51	2	US-08-582-562A-8	Sequence 8, Appl1	C 805	23	1.6	193	3	US-08-991-789A-266	Sequence 266, App
C 733	23	1.6	51	2	US-08-582-562A-8	Sequence 8, Appl1	C 806	23	1.6	193	4	US-09-062-451-266	Sequence 266, App
C 734	23	1.6	51	4	US-08-859-998-1373	Sequence 1373, Ap	C 807	23	1.6	193	4	US-09-289-198-266	Sequence 266, App
C 735	23	1.6	51	4	US-09-225-928-1373	Sequence 1373, Ap	C 808	23	1.6	193	4	US-09-222-575-125	Sequence 125, App
C 736	23	1.6	51	4	US-09-225-201B-1373	Sequence 1373, Ap	C 809	23	1.6	199	4	US-09-389-681-125	Sequence 125, App
C 737	23	1.6	52	3	US-08-778-494B-111	Sequence 111, App	C 810	23	1.6	199	4	US-09-620-405B-115	Sequence 115, App
C 738	23	1.6	52	3	US-08-618-100B-9	Sequence 9, Appl1	C 811	23	1.6	199	4	US-09-339-338-125	Sequence 125, App
C 739	23	1.6	54	2	US-08-771-624B-24	Sequence 24, Appl	C 812	23	1.6	199	4	US-09-604-287A-135	Sequence 135, App
C 740	23	1.6	55	1	US-08-113-646A-41	Sequence 41, Appl	C 813	23	1.6	208	3	US-08-686-878A-37	Sequence 37, Appl
C 741	23	1.6	55	2	US-08-522-269B-18	Sequence 18, Appl	C 814	23	1.6	208	4	US-09-124-523-98	Sequence 98, Appl
C 742	23	1.6	55	2	US-08-582-562A-16	Sequence 16, Appl	C 815	23	1.6	208	4	US-09-636-796A-98	Sequence 98, Appl
C 743	23	1.6	55	2	US-08-778-494B-16	Sequence 16, Appl	C 816	23	1.6	208	4	US-08-431-190-15	Sequence 15, Appl
C 744	23	1.6	55	3	US-08-778-494B-67	Sequence 67, Appl	C 817	23	1.6	208	4	US-08-481-190-15	Sequence 15, Appl
C 745	23	1.6	55	3	US-09-294-923-18	Sequence 18, Appl	C 818	23	1.6	222	5	PCT-US93-00869-15	Sequence 15, Appl
C 746	23	1.6	55	4	US-09-944-036-32	Sequence 32, Appl	C 819	23	1.6	222	5	US-09-792-594-11	Sequence 11, Appl
C 747	23	1.6	56	3	US-09-118-256-1	Sequence 1, Appl1	C 820	23	1.6	223	4	US-08-731-272A-26	Sequence 26, Appl
C 748	23	1.6	56	3	US-09-118-256-2	Sequence 2, Appl1	C 821	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 749	23	1.6	56	4	US-09-944-036-30	Sequence 30, Appl	C 822	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 750	23	1.6	57	3	US-09-620-958A-7	Sequence 7, Appl1	C 823	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 751	23	1.6	57	4	US-09-944-036-31	Sequence 31, Appl	C 824	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 752	23	1.6	58	2	US-08-778-494B-109	Sequence 109, App	C 825	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 753	23	1.6	59	2	US-08-778-494B-110	Sequence 110, App	C 826	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 754	23	1.6	60	1	US-08-241-465B-11	Sequence 11, Appl	C 827	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 755	23	1.6	60	1	US-09-499-362-1	Sequence 1, Appl1	C 828	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 756	23	1.6	60	4	US-09-284-627-14	Sequence 14, Appl	C 829	23	1.6	223	4	US-09-328-111-484	Sequence 11, Appl
C 757	23	1.6	61	4	US-09-457-959-7	Sequence 7, Appl1	C 830	23	1.6	231	3	US-09-328-111-287	Sequence 287, App


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977 23 1.6 466 4 US-09-904-615-60 Sequence 60, Appl
c 978 23 1.6 502 4 US-09-186-2768-29 Sequence 29, Appl
c 979 23 1.6 502 4 US-08-842-445-29 Sequence 29, Appl
c 980 23 1.6 506 4 US-09-186-1888-29 Sequence 29, Appl
981 23 1.6 506 4 US-09-370-838-263 Sequence 263, App
982 23 1.6 519 4 US-09-227-357-76 Sequence 76, Appl
c 983 23 1.6 520 4 US-09-220-132-171 Sequence 171, App
984 23 1.6 522 4 US-08-909-965C-16 Sequence 16, Appl
985 23 1.6 528 4 US-09-105-542A-12 Sequence 12, Appl
986 23 1.6 530 4 US-09-461-325-28 Sequence 28, Appl
c 987 23 1.6 535 3 US-09-385-982-385 Sequence 385, App
c 988 23 1.6 537 4 US-09-720-201A-4 Sequence 4, Appl
989 23 1.6 540 4 US-09-313-434C-15 Sequence 15, Appl
c 990 23 1.6 543 4 US-09-904-615-33 Sequence 33, Appl
c 991 23 1.6 545 3 US-09-328-111-506 Sequence 506, App
c 992 23 1.6 546 4 US-09-280-116-48 Sequence 48, Appl
c 993 23 1.6 547 3 US-09-188-830-14 Sequence 14, Appl
c 994 23 1.6 547 4 US-09-312-283C-14 Sequence 14, Appl
995 23 1.6 548 4 US-09-186-2768-51 Sequence 51, Appl
996 23 1.6 548 4 US-08-842-445-51 Sequence 51, Appl
997 23 1.6 548 4 US-09-186-1888-51 Sequence 51, Appl
998 23 1.6 549 3 US-09-091-590A-13 Sequence 13, Appl
c 999 23 1.6 549 4 US-09-342-681C-6 Sequence 6, Appl
1000 23 1.6 550 3 US-08-632-511A-7 Sequence 7, Appl
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ALIGNMENTS

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RESULT 1
US-09-220-132-133
; Sequence 133, Application US/09220132
; Patent No. 6506607
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE IDENTIFICATION AND ASSESSMENT
; FILE REFERENCE: 07334-074001
; CURRENT APPLICATION NUMBER: US/09/220,132
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: US 60/079,303
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: US 60/068,821
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 693
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-220-132-133
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Query Match 1.9%; Score 27; DB 4; Length 693;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1369 AAAAAAAAAAAAAAAAAAGGCGG 1395
Db 663 AAAAAAAAAAAAAAAAAAGGCGG 668
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RESULT 2
US-09-220-132-191
; Sequence 191, Application US/09220132
; Patent No. 6506607
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE IDENTIFICATION AND ASSESSMENT
; FILE REFERENCE: 07334-074001
; CURRENT APPLICATION NUMBER: US/09/220,132
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: US 60/079,303
```

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; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: US 60/068,821
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 191
; LENGTH: 775
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-220-132-191
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Query Match 1.9%; Score 27; DB 4; Length 775;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1369 AAAAAAAAAAAAAAAAAAGGCGG 1395
Db 745 AAAAAAAAAAAAAAAAAAGGCGG 771
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RESULT 3
US-09-220-132-175
; Sequence 175, Application US/09220132
; Patent No. 6506607
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE IDENTIFICATION AND ASSESSMENT
; FILE REFERENCE: 07334-074001
; CURRENT APPLICATION NUMBER: US/09/220,132
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: US 60/079,303
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: US 60/068,821
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 191
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 175
; LENGTH: 1223
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-220-132-175
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Query Match 1.9%; Score 27; DB 4; Length 1223;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1369 AAAAAAAAAAAAAAAAAAGGCGG 1395
Db 1193 AAAAAAAAAAAAAAAAAAGGCGG 1219
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RESULT 4
US-08-473-981A-5
; Sequence 5, Application US/08473981A
; Patent No. 5629162
; GENERAL INFORMATION:
; APPLICANT: defougerolles, Antonin R
; TITLE OF INVENTION: METHODS OF IDENTIFYING AGENTS WHICH MODULATE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, N.W. SUITE 600
; CITY: WASHINGTON
; STATE: D. C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,981A
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MILLOWING, ROBERT C
REGISTRATION NUMBER: 34,395
REFERENCE/DOCKET NUMBER: 1011.0560004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1817 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 9..1649
US-08-473-981A-5

Query Match 1.9%; Score 27; DB 1; Length 1817;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1364 TCCCTAAAAAAAAAAAAAAAAAAAAA 1390
DB 1727 TCCCTAAAAAAAAAAAAAAAAAAAAA 1753

RESULT 5
US-08-474-087-5
Sequence 5, Application US/08474087
Patent No. 5891841
GENERAL INFORMATION:
APPLICANT: de Fougereolles, Antonin R
APPLICANT: Springer, Timothy A
TITLE OF INVENTION: METHODS OF USING INTERCELLULAR ADHESION MOLECULE-
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, N.W. SUITE 600
CITY: WASHINGTON
STATE: D. C.
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,087
FILING DATE: 07-JUN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/038,990
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/712,879
FILING DATE: 11-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: MILLOWING, ROBERT C
REGISTRATION NUMBER: 34,395
REFERENCE/DOCKET NUMBER: 1011.0560003
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:

LENGTH: 1817 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 9..1649
US-08-474-087-5

Query Match 1.9%; Score 27; DB 2; Length 1817;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1364 TCCCTAAAAAAAAAAAAAAAAAAAAA 1390
DB 1727 TCCCTAAAAAAAAAAAAAAAAAAAAA 1753

RESULT 6
US-09-130-491-7
Sequence 7, Application US/09130491
Patent No. 6416974
GENERAL INFORMATION:
APPLICANT: Holtzman, Douglas A.
APPLICANT: Goodearl, Andrew D.J.
TITLE OF INVENTION: TANGO-71, TANGO-73, TANGO-74, TANGO-76, AND TANGO-83
FILE REFERENCE: 09404/041001
CURRENT APPLICATION NUMBER: US/09/130,491
CURRENT FILING DATE: 1998-08-07
EARLIER APPLICATION NUMBER: US 60/058,108
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: US 60/054,961
EARLIER FILING DATE: 1997-08-06
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 2114
TYPE: DNA
ORGANISM: Rattus rattus
FEATURE:
NAME/KEY: CDS
LOCATION: (3)...(1445)
US-09-130-491-7

Query Match 1.9%; Score 27; DB 4; Length 2114;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1369 AAAAAAAAAAAAAAAAAAGCGCG 1395
DB 2084 AAAAAAAAAAAAAAAAAAGCGCG 2110

RESULT 7
US-09-798-096-10/C
Sequence 10, Application US/09798096
Patent No. 639378
GENERAL INFORMATION:
APPLICANT: Donna T. Ward
APPLICANT: Andrew T. Walt
TITLE OF INVENTION: ANTISENSE MODULATION OF REOGL2 EXPRESSION
FILE REFERENCE: RTS-0207
CURRENT APPLICATION NUMBER: US/09/798,096
CURRENT FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 89
SEQ ID NO 10
LENGTH: 99500
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 1..99500
US-09-798-096-10

Query Match 1.9%; Score 27; DB 4; Length 99500;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1367 CTTAAAAAAAAAAAAAAAAAGGC 1393
DB 57302 CTTAAAAAAAAAAAAAAAAAGGC 57276

RESULT 8

US-09-328-475C-196/C
; Sequence 196, Application US/09328475C
; Patent No. 6476207
; GENERAL INFORMATION:
; APPLICANT: Zhang, Jimmy
; APPLICANT: Astel, Jon H.
; APPLICANT: Carroll III, Eddie
; APPLICANT: Endesge, Wilson O.
; APPLICANT: Ford, Donna M.
; APPLICANT: Monahan, John E.
; APPLICANT: Schlegel, Robert
; APPLICANT: Steinmann, Kathleen E.
; TITLE OF INVENTION: GENES AND GENE EXPRESSION PRODUCTS THAT
; FILE REFERENCE: ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER
; CURRENT APPLICATION NUMBER: US/09/328,475C
; CURRENT FILING DATE: 1999-06-09
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: PatSeq for Windows Version 3.0
; SEQ ID NO 196
; LENGTH: 511
; TYPE: DNA
; ORGANISM: Homo Sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(511)
; OTHER INFORMATION: n = A,T,C or G
US-09-328-475C-196

Query Match 1.9%; Score 26; DB 4; Length 511;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1365 CCTAAAAAAAAAAAAAAAAAAA 1390
DB 138 CCTAAAAAAAAAAAAAAAAAAA 113

RESULT 9

US-09-122-400B-11
; Sequence 11, Application US/09122400B
; Patent No. 6245974
; GENERAL INFORMATION:
; APPLICANT: Michalowski, Susan
; APPLICANT: Spiker, Steven
; TITLE OF INVENTION: MATRIX ATTACHMENT REGIONS
; FILE REFERENCE: Michalowski and Spiker
; CURRENT APPLICATION NUMBER: US/09/122,400B
; CURRENT FILING DATE: 1998-07-24
; PRIOR APPLICATION NUMBER: 60/066,118
; PRIOR FILING DATE: 1997-08-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 899
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-09-122-400B-11

Query Match 1.9%; Score 26; DB 3; Length 899;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1365 CCTAAAAAAAAAAAAAAAAAAA 1390
DB 804 CCTAAAAAAAAAAAAAAAAAAA 829

RESULT 10

US-09-257-179-28
; Sequence 28, Application US/09257179
; Patent No. 6410709
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 29 Human Secreted Proteins
; FILE REFERENCE: P2015P1
; CURRENT APPLICATION NUMBER: US/09/257,179
; CURRENT FILING DATE: 1999-02-25
; EARLIER APPLICATION NUMBER: PCT/US98/17709
; EARLIER FILING DATE: 1998-08-27
; EARLIER APPLICATION NUMBER: 60/056,270
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,271
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,247
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,073
; EARLIER FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 1327
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-257-179-28

Query Match 1.9%; Score 26; DB 4; Length 1327;
Best Local Similarity 100.0%; Pred. No. 0.068;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1370 AAAAAAAAAAAAAAAAAAGCGG 1395
DB 1300 AAAAAAAAAAAAAAAAAAGCGG 1325

RESULT 11

US-09-620-312D-722
; Sequence 722, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yongsheng
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungting
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhilwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: Polypeptides
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21

NUMBER OF SEQ ID NOS: 1105
SOFTWARE: pt_fl_genes Version 1.0
SEQ ID NO 722
LENGTH: 1509
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (557)..(1312)
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1509)
OTHER INFORMATION: n = a,t,c or g
US-09-620-312D-722

Query Match 1.9%; Score 26; DB 4; Length 1509;
Best Local Similarity 100.0%; Pred.No. 0.067;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1365 CCTAATAAAAAAAAAAAAAAAAAA 1390
Db 1484 CCTAATAAAAAAAAAAAAAAAAAA 1509

RESULT 12
US-09-482-273-51
Sequence 51, Application US/09482273
Patent No. 6534631

GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
CURRENT APPLICATION NUMBER: US/09/482,273

EARLIER FILING DATE: 2000-01-13
EARLIER APPLICATION NUMBER: PCT/US99/15849
EARLIER FILING DATE: 1999-07-14
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,922
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,956
EARLIER FILING DATE: 1998-07-15

NUMBER OF SEQ ID NOS: 267
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 51

LENGTH: 1569
TYPE: DNA

ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE

LOCATION: (341)
OTHER INFORMATION: n equals a,t,c,g, or c
US-09-482-273-51

Query Match 1.9%; Score 26; DB 4; Length 1569;
Best Local Similarity 100.0%; Pred.No. 0.067;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1365 CCTAATAAAAAAAAAAAAAAAAAA 1390
Db 1537 CCTAATAAAAAAAAAAAAAAAAAA 1562

RESULT 13
US-09-489-847-48

Sequence 48, Application US/09489847

Patent No. 6476195
GENERAL INFORMATION:

APPLICANT: Rosen et al.
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: P2031P1
CURRENT APPLICATION NUMBER: US/09/489,847
CURRENT FILING DATE: 2000-01-24

EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER FILING DATE: 1999-07-29
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
EARLIER APPLICATION NUMBER: 60/095,486
EARLIER FILING DATE: 1998-08-05
EARLIER APPLICATION NUMBER: 60/096,319
EARLIER FILING DATE: 1998-08-12
EARLIER APPLICATION NUMBER: 60/095,454
EARLIER FILING DATE: 1998-08-06
EARLIER APPLICATION NUMBER: 60/095,455
EARLIER FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 48
LENGTH: 1730
TYPE: DNA
ORGANISM: Homo sapiens
US-09-489-847-48

Query Match 1.9%; Score 26; DB 4; Length 1730;
Best Local Similarity 100.0%; Pred.No. 0.067;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1367 CTAAAAAAAAAAAAAAAAAAGG 1392
Db 1699 CTAAAAAAAAAAAAAAAAAAGG 1724

RESULT 14
US-08-836-567-3
Sequence 3, Application US/08836567

Patent No. 6130367
GENERAL INFORMATION:

APPLICANT: Kossmann, Jens
APPLICANT: Springer, Franziska
APPLICANT: Abel, Gernot

TITLE OF INVENTION: DNA MOLECULES THAT CODE FOR ENZYMES
TITLE OF INVENTION: INVOLVED IN STARCH SYNTHESIS VECTORS BACTERIA TRANSGENIC

TITLE OF INVENTION: PLANT CELLS AND PLANTS CONTAINING SAID MOLECULES
NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:
ADDRESSEE: FISH & NEAVE

STREET: 1251 Avenue of the Americas
CITY: New York

STATE: New York
COUNTRY: USA

ZIP: 10020
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,567

FILING DATE: 24-JUL-1997
CLASSIFICATION: 800

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04415

FILING DATE: 09-NOV-1995
PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE P 44 41 408.0
FILING DATE: 10-NOV-1994

ATTORNEY/AGENT INFORMATION:
NAME: Haley Jr., James F.

REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: Agrevo-4

TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-9000

TELEFAX: 212-596-9090
INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 1758 base pairs

TYPE: nucleotide
STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Solanum tuberosum
STRAIN: cv. Berolina
TISSUE TYPE: tuber tissue
IMMEDIATE SOURCE:
LIBRARY: cDNA-library in pBluescriptSKII+
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1377
OTHER INFORMATION: /function= "polymerization of
starch"
OTHER INFORMATION: /product= "Starch synthase"
US-08-836-567-3

Query Match 1.9%; Score 26; DB 3; Length 1758;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1365 CCCTAAAAAAAAAAAAAAAAAAAA 1390
DB 1719 CCCTAAAAAAAAAAAAAAAAAAAA 1744

RESULT 15
US-09-606-304-3
Sequence 3, Application US/09606304
Patent No. 6483010

GENERAL INFORMATION:

APPLICANT: Koesmann, Jens
Springer, Franziska
Abel, Gernot

TITLE OF INVENTION: DNA MOLECULES THAT CODE FOR ENZYMES
INVOLVED IN STARCH SYNTHESIS VECTORS BACTERIA TRANSGENIC

PLANT CELLS AND PLANTS CONTAINING SAID MOLECULES

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

STREET: 1251 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10020

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/606,304

FILING DATE: 28-Jun-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/836,567

FILING DATE: <Unknown>

APPLICATION NUMBER: DE P 44 41 408.0

FILING DATE: 10-NOV-1994

ATTORNEY/AGENT INFORMATION:

NAME: Haley Jr., James F.

REGISTRATION NUMBER: 27,794

REFERENCE/DOCKET NUMBER: Agrevo-4

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-596-9000

TELEFAX: 212-596-9090

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 1758 base pairs

TYPE: nucleotide

STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Solanum tuberosum
STRAIN: cv. Berolina
TISSUE TYPE: tuber tissue
IMMEDIATE SOURCE:
LIBRARY: cDNA-library in pBluescriptSKII+
OTHER INFORMATION: CDS
FEATURE:
LOCATION: 1..1377
OTHER INFORMATION: /function= "Polymerization of
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US-09-606-304-3

Query Match 1.9%; Score 26; DB 4; Length 1758;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1365 CCCTAAAAAAAAAAAAAAAAAAAA 1390
DB 1719 CCCTAAAAAAAAAAAAAAAAAAAA 1744

Search completed: December 13, 2003, 20:15:18
Job time: 101 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 13, 2003, 20:07:08 ; Search time 359 Seconds
(without alignments)
12933.337 Million cell updates/sec

Title: US-09-989-919-15

Perfect score: 1397
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Scoring table: OLIGO_NTC
Gapop 60.0, Gapext 60.0

Searched: 2201672 seqs, 1661799599 residues

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Minimum DB seq length: 0
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Post-processing: Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	442	31.6	470	US-09-989-919-14	Sequence 14, Appl
4	322	23.0	427	US-09-880-107-1138	Sequence 1138, Ap
5	97	6.9	493	US-09-918-995-32213	Sequence 32213, A
6	36	2.6	1358	US-10-006-285-304	Sequence 304, Appl
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8	30	2.1	421	US-09-867-701-3641	Sequence 3641, Ap
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989	25	1.8	495	14	US-10-027-633-81094	Sequence 81094, A
990	25	1.8	495	13	US-09-814-353-15180	Sequence 15180, A
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ALIGNMENTS

RESULT 1
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; Sequence 15, Application US/0989919
; Patent No. US2002016434A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Herve
; APPLICANT: Pluta, Jason
; APPLICANT: Ghosh, Malavika
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; FILE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Pro
; FILE REFERENCE: DEX-0289
; CURRENT APPLICATION NUMBER: US/09/989,919
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/252,505
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 1397
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-989-919-15

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1397; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GGTCCTGACCTGTATCCGAGCGGGAGTATCTGCAGAACTCCAGGCGAAGCAGACTAC 60

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QY 1201 CATTGCTTTCATGAAAGCTTCAAGCCAAACCAAGGCTTTCCCTTCTGAGT 1260
DB 1201 CATTGCTTTCATGAAAGCTTCAAGCCAAACCAAGGCTTTCCCTTCTGAGT 1260
QY 1261 TTGAATATCAGAACTTTTGTACTTCTGTTGTTAAATGTTTAAATTTTGTAAAAAT 1320
DB 1261 TTGAATATCAGAACTTTTGTACTTCTGTTGTTAAATGTTTAAATTTTGTAAAAAT 1320
QY 1321 AAAATTAATTAATTAATTAATTAATGATGTTTCAGAGCAACTCTTCCCTAAAAA 1380
DB 1321 AAAATTAATTAATTAATTAATTAATGATGTTTCAGAGCAACTCTTCCCTAAAAA 1380
QY 1381 AAAAAAAGGCGGTC 1397
DB 1381 AAAAAAAGGCGGTC 1397

RESULT 2

US-10-006-285-474
Sequence 474, Application US/10006285
Publication No. US20030165854A1
GENERAL INFORMATION:
APPLICANT: Mary Jane Cunningham
APPLICANT: Matthew R. Kaser
TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
FILE REFERENCE: PA-0039 US
CURRENT APPLICATION NUMBER: US/10/006,285
CURRENT FILING DATE: 2001-12-05
NUMBER OF SEQ ID NOS: 514
SOFTWARE: PERL Program
SEQ ID NO 474
LENGTH: 1714
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030165854A1 018653.18
US-10-006-285-474

Query Match 62.7%; Score 876; DB 13; Length 1714;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 926; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 442 CAGGTGCGAGCTGTCTTTTTCAGACTGATGAGCGCAAGTGATCCCTGATCCCAACA 501
DB 788 CAGGTGCGAGCTGTCTTTTTCAGACTGATGAGCGCAAGTGATCCCTGATCCCAACA 847
QY 502 AGACCAATATGTAAGGCTCTGCTGACCTATCTGAGGGCTCGGCTGACCAAGTACT 561
DB 848 AGACCAATATGTAAGGCTCTGCTGACCTATCTGAGGGCTCGGCTGACCAAGTACT 907
QY 562 ATCCCTAGAGCTGGGCTTGCCTGAGAGGAGTGACTTGACCTGACAGACGATGTC 621
DB 908 ATCCCTAGAGCTGGGCTTGCCTGAGAGGAGTGACTTGACCTGACAGACGATGTC 967
QY 622 ACTGCGAAGCCCTGACAGCAAAAGCTAACATCCAGACAGACAGATGTGACAGCAAA 681
DB 968 ACTGCGAAGCCCTGACAGCAAAAGCTAACATCCAGACAGACAGATGTGACAGCAAA 1027
QY 682 CCGTCAATATGCAAAATGTTAAATGTGATTTACCAAGCTTACCTATGAGGACTGTCGC 741
DB 1028 CCGTCAATATGCAAAATGTTAAATGTGATTTACCAAGCTTACCTATGAGGACTGTCGC 1087
QY 742 TCTTATCCAGAAATATGAGGGGTATGACGCTCTCAACCTGAGGGCTGTAAACAAAG 801
DB 1088 TCTTATCCAGAAATATGAGGGGTATGACGCTCTCTCAACCTGAGGGCTGTAAACAAAG 1147
QY 802 CTCAGGCTAGTCTCCCACTGAGGGGCTGTGCCCCCTGCGAGCGGTTCCGTGGGCGAGCC 861

DB 1148 CTCAGGCTAGTCTCCCACTGAGGGGCTGTGCCCCCTGCGAGCGGTTCCGTGGGCGAGCC 1207
QY 862 CCATCACTGTGTTCAATATGATGAGATGTAAGTAAAGCCCTGCTGCTGCTGACACA 921
DB 1208 CCATCACTGTGTTCAATATGATGAGATGTAAGTAAAGCCCTGCTGCTGCTGACACA 1267
QY 922 TCCACAGAGCGGCTGAGGGGCTGCTGAGGAGCAATTCATGCTGAGTGTCTCAGCT 981
DB 1268 TCCACAGAGCGGCTGAGGGGCTGCTGAGGAGCAATTCATGCTGAGTGTCTCAGCT 1327
QY 982 TAGGTCTGACAGAGACTTGCGCGGGAGTGTCCAGAGATGTGGTATCTGTACTGCG 1041
DB 1328 TAGGTCTGACAGAGACTTGCGCGGGAGATGTCTCAGAGATGTGGTATCTGTACTGCG 1387
QY 1042 GGAGGCTATCTCTGACTCCCGACAGGGGACACTCCAGGCGCCAGCGGGTCAAGGGC 1101
DB 1388 GGAGGCTATCTCTGACTCCCGACAGGGGACACTCCAGGCGCCAGCGGGTCAAGGGC 1447
QY 1102 AGAGGTGACACACTGACAGATGAGCCAGACTGAGGCTCAGGAGCAGTGTGTTGAGCC 1161
DB 1448 AGAGGTGACACACTGACAGATGAGCCAGACTGAGGCTCAGGAGCAGTGTGTTGAGCC 1507
QY 1162 AGAGCTGAGGCGGGGCTGAGGGGCTGCTTCTGCTCATTTGCTTCAATGAAAGCC 1221
DB 1508 AGAGCTGAGGCGGGGCTGAGGGGCTGCTTCTGCTCATTTGCTTCAATGAAAGCC 1567
QY 1222 TCAAGGACGCAAAACAGGCTTTCCCTCTGAGTGTGATTCAGAACTCTTTG 1281
DB 1568 TCAAGGACGCAAAACAGGCTTTCCCTCTGAGTGTGATTCAGAACTCTTTG 1627
QY 1282 TACTCTGTTGTTGTTAAATGTTTAAATTTTGTAAATTAATTAATTAATTAATTAAT 1341
DB 1628 TACTCTGTTGTTGTTAAATGTTTAAATTTTGTAAATTAATTAATTAATTAATTAAT 1687
QY 1342 ATGATGTTTCAGAGCAAACTCTTCCCT 1368
DB 1688 ATGATGTTTCAGAGCAAACTCTTCCCT 1714

RESULT 3

US-09-989-919-14
Sequence 14, Application US/09989919
Patent No. US20020164344A1
GENERAL INFORMATION:
APPLICANT: Medina, Roberto
APPLICANT: Recipon, Hervé
APPLICANT: Pluta, Jason
APPLICANT: Ghosh, Malavika
APPLICANT: Sun, Yongming
APPLICANT: Liu, Chenchua
TITLE OF INVENTION: Compositions and Methods Relating to Colon Specific Genes and Pro
FILE REFERENCE: DEX-0289
CURRENT APPLICATION NUMBER: US/09/989,919
CURRENT FILING DATE: 2001-11-21
PRIOR APPLICATION NUMBER: 60/252,505
PRIOR FILING DATE: 2000-11-22
NUMBER OF SEQ ID NOS: 124
SOFTWARE: Patencin version 3.1
SEQ ID NO 14
LENGTH: 470
TYPE: DNA
ORGANISM: Homo sapien
US-09-989-919-14

Query Match 31.6%; Score 442; DB 10; Length 470;
Best Local Similarity 100.0%; Pred. No. 6,58-209;
Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 572 GCTGGGCTTGTGCTGAGAGGAGTGAATTCGACCTGAGCACTGATGATCACTTGGGAAAC 631
DB 7 GCTGGGCTTGTGCTGAGAGGAGTGAATTCGACCTGAGCACTGATGATCACTTGGGAAAC 66
QY 632 CCTGACAGCAAAAGCTAACATCCAGACAGACAGATGTGACAGAGCAAAAGTGCATTA 691

```

Db      67  CCTGCAGACAAAGCTAATCATCCAGACAGATGTGACCCAGACAAACGTGCAATTA 126
Qy      692  TGGCAATGTAAAAAGTGTATACCGCTGTAGTATGGAATGTGGTCTCTTACTCA 751
Db      127  TGGCAATGTAAAAAGTGTATACCGCTGTAGTATGGAATGTGGTCTCTTACTCA 186
Qy      752  GGAATCATGGGGGTATGATGCTCTCAACCTGTGGGTGTAAACAAAGCTAGAGCTAG 811
Db      187  GGAATCATGGGGGTATGATGCTCTCAACCTGTGGGTGTAAACAAAGCTAGAGCTAG 246
Qy      812  TCTCCCACTGGGGGTGTGGTCCCTCTCTGAGACGGTTCGTGGGCAAGCCCATCTGT 871
Db      247  TCTCCCACTGGGGGTGTGGTCCCTCTCTGAGACGGTTCGTGGGCAAGCCCATCTGT 306
Qy      872  GTTCATATGTGTAGAAATGTAGTAAAGCCCTGTGGGTGTAAACAAAGCTAGAGCTAG 931
Db      307  GTTCATATGTGTAGAAATGTAGTAAAGCCCTGTGGGTGTAAACAAAGCTAGAGCTAG 366
Qy      932  GGGGTGGGGGTGTGGTGGGGAACAATCATCTGTGAGTGTCTCTGAGCTTAGGTCTGGA 991
Db      367  GGGGTGGGGGTGTGGTGGGGAACAATCATCTGTGAGTGTCTCTGAGCTTAGGTCTGGA 426
Qy      992  CAGGAGACTTGGGGGGGATGC 1013
Db      427  CAGGAGACTTGGGGGGGATGC 448

```

RESULT 4

```

US-09-880-107-1138/c
/ Sequence 1138, Application US/09880107
/ Patent No. US20020142981A1
/ GENERAL INFORMATION:
/ APPLICANT: Horne, Darci T.
/ APPLICANT: Vockley, Joseph G.
/ APPLICANT: Scherf, Uwe
/ APPLICANT: Gene Logic, Inc.
/ TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
/ FILE REFERENCE: 44921-5028-WO
/ CURRENT APPLICATION NUMBER: US/09/880,107
/ PRIOR FILING DATE: 2001-06-14
/ PRIOR APPLICATION NUMBER: US 60/211,379
/ PRIOR FILING DATE: 2000-06-14
/ PRIOR APPLICATION NUMBER: US 60/237,054
/ PRIOR FILING DATE: 2000-10-02
/ NUMBER OF SEQ ID NOS: 3950
/ SOFTWARE: Patent In Ver. 2.1
/ SEQ ID NO 1138
/ LENGTH: 427
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: Genbank Accession No. US20020142981A1 AA451877
US-09-880-107-1138

```

```

Query Match      23.0%; Score 322; DB 10; Length 427;
Best Local Similarity 99.5%; Pred. No. 2.4e-149;
Matches 422; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy      936  GTGGGGGCTGCTGGGAGCAATCATCTGTGAGTGTCTCTGAGCTTAGGTCTGAGCAG 995
Db      427  GTGGGGGCTGCTGGGAGCAATCATCTGTGAGTGTCTCTCTGAGCTTAGGTCTGAGCAG 368
Qy      996  AGACTTGGCGGGGATGCTCCAGAGATGTGGTGTATTTGTAACTTGGGGAGGCTATCTCTG 1055
Db      367  AGACTTGGCGGGGATGCTCCAGAGATGTGGTGTATTTGTAACTTGGGGAGGCTATCTCTG 308
Qy      1056  ACCTCCGAGAGGGAACCTCCAGAGGCAAGCCAGGGGTGAGGGGCGAGAGTGACACCT 1115
Db      307  ACCTCCGAGAGGGAACCTCCAGAGGCAAGCCAGGGGTGAGGGGCGAGAGTGACACCT 248
Qy      1116  CAGCATAGGCAAGACTGGGGTTCAGGAGAGAGGTGTGTTGACCGACGACTTGGGGCGG 1175

```

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Db      247  CAGCATAGGCAAGACTGGGGTTCAGGAGAGAGGTGTGTTGAGCCAGAGCCTGGGGCGG 188
Qy      1176  GGGTGGGGCGGGGCTTCTTCTGCTCATTTGCTTCAATGAAGCTCAAGACCCAAA 1235
Db      187  GGGTGGAGCGGGGCTTCTTCTGCTCATTTGCTTCAATGAAGCTCAAGACCCAAA 128
Qy      1236  ACCAGGCTTTCCTCTCTGAGTTGTAAATTCAGAACTTTTGTACTTCTTGTGGT 1295
Db      127  ACCAGGCTTTCCTCTCTGAGTTGTAAATTCAGAACTTTTGTACTTCTTGTGGT 68
Qy      1296  TAAATTTTAAATTTTGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1355
Db      67  TAAATTTTAAATTTTGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 8
Qy      1356  CAAA 1359
Db      7  CAAA 4

```

RESULT 5

```

US-09-918-995-32213
/ Sequence 32213, Application US/09918995
/ Publication No. US20030073623A1
/ GENERAL INFORMATION:
/ APPLICANT: HySeq, Inc.
/ TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
/ FILE REFERENCE: 20411-756
/ CURRENT APPLICATION NUMBER: US/09/918,995
/ PRIOR FILING DATE: 2001-07-30
/ PRIOR APPLICATION NUMBER: US/09/235,076
/ PRIOR FILING DATE: 1999-01-20
/ NUMBER OF SEQ ID NOS: 38054
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 32213
/ LENGTH: 493
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(493)
/ OTHER INFORMATION: n = A,T,C or G
US-09-918-995-32213

```

```

Query Match      6.9%; Score 97; DB 11; Length 493;
Best Local Similarity 100.0%; Pred. No. 1.2e-37;
Matches 97; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1  GGTGCTGACCTGTATCCGAGCGGGGAGTATCTGCAGAACTCCAGCGCAGACGACTAC 60
Db      397  GGTGCTGACCTGTATCCGAGCGGGGAGTATCTGCAGAACTCCAGCGCAGACGACTAC 456
Qy      61  CGAGTACAGTGTATCCGAGCAGACGACCATCCCCCAG 97
Db      457  CGAGTACAGTGTATCCGAGCAGACGACCATCCCCCAG 493

```

RESULT 6

```

US-10-006-285-304
/ Sequence 304, Application US/10006285
/ Publication No. US20030165854A1
/ GENERAL INFORMATION:
/ APPLICANT: Mary Jane Cunningham
/ APPLICANT: Matthew R. Kaser
/ TITLE OF INVENTION: MARKER GENES RESPONDING TO TREATMENT WITH TOXINS
/ FILE REFERENCE: PA-0039 US
/ CURRENT APPLICATION NUMBER: US/10/006,285
/ PRIOR FILING DATE: 2001-12-05
/ NUMBER OF SEQ ID NOS: 514
/ SOFTWARE: PERL Program
/ SEQ ID NO 304
/ LENGTH: 1358
/ TYPE: DNA

```



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; ORGANISM: Rattus norvegicus
;
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US2003016585A1 216659_Rn.1
US-10-006-285-304

```

```
Query Match      2.6%; Score 36; DB 13; Length 1358;
Best Local Similarity 100.0%; Pred. No. 2.2e-07;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 203 GCCTTTGTGTGTCACCAACGACCACTGGACAGT 238
 Db 461 GCCTTTGTGTGTCACCAACGACCACTGGACAGT 496

RESULT 7
US-09-770-791-70/c
; Sequence 70, Application US/09770791
; Patent No. US20020062014A1

```

1 APPLICANT: Goriach, Jorm
2 APPLICANT: An, Yong-Qiang
3 APPLICANT: Hamilton, Carol M.
4 APPLICANT: Price, Jennifer L.
5 APPLICANT: Raines, Tracy M.
6 APPLICANT: Yu, Yang
7 APPLICANT: Rameaka, Joshua G.
8 APPLICANT: Page, Amy
9 APPLICANT: Matthew, Abraham V.
10 APPLICANT: ledford, Brooke L.
11 APPLICANT: Woessner, Jeffrey P.
12 APPLICANT: Haas, William David
13 APPLICANT: Garcia, Carlos A.
14 APPLICANT: Krickler, Maja
15 APPLICANT: Slader, Ted
16 APPLICANT: Davis, Keith R.
17 APPLICANT: Allen, Keith
18 APPLICANT: Hoffman, Neil
19 APPLICANT: Hudban, Patrick
20 TITLE OF INVENTION: Expressed Sequences of Arabidopsis
21 FILE REFERENCE: 2029 (PARA-018PRV) Chailana
22 CURRENT APPLICATION NUMBER: US/09/770,791
23 CURRENT FILING DATE: 2001-01-26
24 PRIOR APPLICATION NUMBER: 60/178,480
25 PRIOR FILING DATE: 2000-01-27
26 NUMBER OF SEQ ID NOS: 999
27 SOFTWARE: FastSeq for Windows Version 4.0
28 SEQ ID NO 70
29 LENGTH: 386
30 TYPE: DNA
31 ORGANISM: Arabidopsis thaliana
32 JS-09-770-791-70

```

Query Match	2.1%;	Score 30;	DB 9;	Length 386;
Best Local Similarity	100.0%;	Pred. No. 0.00022;		
Matches	30;	Conservative	0;	Mismatches 0;
			Indels	0;
			Gaps	0

```
QY      1361 TCTTCCCTAAAAAAAAAAAAAAAAAAAAA 1390
          |||||
Db       31  TCTTCCTAAAAAAAAAAAAAAAAAAAA 2
```

RESULT 8
US-09-867-701-3641/c
; Sequence 3641, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:

APPLICANT: Aglate, Paul A.
APPLICANT: Jones, Robert
APPLICANT: Harlocker, Susan L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
OF INFECTION AND DIAGNOSIS OF OVARIAN CANCER

```

: FILE REFERENCE: 210121.497
: CURRENT APPLICATION NUMBER: US/09/867,701
: CURRENT FILING DATE: 2001-05-29
: NUMBER OF SEQ ID NOS: 10912
: SOFTWARE: FastSeq for Windows Version 4.0.
: SEQ ID NO 3641
: LENGTH: 421
: TYPE: DNA
: ORGANISM: Homo sapien
: US-09-867-701-3641

```

```
Query Match      2.1%; Score 30; DB 10; Length 421;
Best Local Similarity 100.0%; Pred. No. 0.00022;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1361 TCTTCCTCAAAAAAAAAAAAAAAAAAAAAA 1390
          |||||
Db       30 TCTTCCTCAAAAAAAAAAAAAAAAAAAAAA 1
```

RESULT 9
US-09-770-445-884/c
; Sequence 884, Application US/09770445
; Patent No. US20020023281A1
GENERAL INFORMATION

```

APPLICANT: Goriach, Jörn
APPLICANT: An, Yong-Qiang
APPLICANT: Hamilton, Carol M.
APPLICANT: Price, Jennifer L.
APPLICANT: Raines, Tracy M.
APPLICANT: Yu, Yang
APPLICANT: Rameeka, Joshua G.
APPLICANT: Page, Amy
APPLICANT: Matthew, Abraham V.
APPLICANT: Ledford, Brooke L.
APPLICANT: Woessner, Jeffrey P.
APPLICANT: Haas, William David
APPLICANT: Garcia, Carlos A.
APPLICANT: Krickler, Maja
APPLICANT: Slader, Ted
APPLICANT: Davis, Keith R.
APPLICANT: Allen, Keith
APPLICANT: Hoffman, Neil
APPLICANT: Hordan, Patrick
TITLE OF INVENTION: Expressed Sequences of Arabidopsis
TITLE OF INVENTION: thaliana
FILE REFERENCE: 2023US (PARA-012PRV)
CURRENT APPLICATION NUMBER: US/09/770, 445
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: US 60/178, 472
PRIOR FILING DATE: 2000-01-27
NUMBER OF SEQ ID NOS: 999
SOFTWARE: FaSTSeq for Windows Version 4.0
SEQ ID NO 884
LENGTH: 777
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-770-445-884

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Query Match	2.1%;	Score 30;	DB 9;	Length 777;
Best Local Similarity	100.0%;	Pred. No. 0.00021;		
Matches 30;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

```
QY      1361 TCCTCCCTAAAAAATAAAAAAAAAAA 1390
          |||||
Db       45  TCTTCCTAAAAAATAAAAAAAAAAA 16
```

```

RESULT 10
US-10-199-672-569
; Sequence 569, Application US/10199672
; Publication No. US2003014842A1
; GENERAL INFORMATION:

```

```
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Chen, Jian
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Pan, James
/ APPLICANT: Smith, Victoria
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3430R1C1
/ CURRENT APPLICATION NUMBER: US/10/199,672
/ CURRENT FILING DATE: 2002-07-18
/ PRIOR APPLICATION NUMBER: US/10/052,586
/ PRIOR FILING DATE: 2002-01-15
/ PRIOR APPLICATION NUMBER: 60/059263
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/059266
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/063120
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063121
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063486
/ PRIOR FILING DATE: 1997-10-21
/ PRIOR APPLICATION NUMBER: 60/063540
/ PRIOR FILING DATE: 1997-10-28
/ PRIOR APPLICATION NUMBER: 60/063541
/ PRIOR FILING DATE: 1997-10-28
/ PRIOR APPLICATION NUMBER: 60/063544
/ PRIOR FILING DATE: 1997-10-28
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 612
/ SEQ ID NO 569
/ LENGTH: 2457
/ TYPE: DNA
/ ORGANISM: Homo Sapien
/ US-10-199-672-569

Query Match          2.1%; Score 30; DB 13; Length 2457;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1361 TCTTCCTAAAAAAAAAAAAAAAAAAAA 1390
Db      2423 TCTTCCTAAAAAAAAAAAAAAAAAAAA 2452

RESULT 11
US-10-187-749-569
/ Sequence 569, Application US/10187749
/ Publication No. US20030153036A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Chen, Jian
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Pan, James
/ APPLICANT: Smith, Victoria
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3430R1C1
/ CURRENT APPLICATION NUMBER: US/10/187,749
```

```
/ CURRENT FILING DATE: 2002-07-01
/ PRIOR APPLICATION NUMBER: US/10/052,586
/ PRIOR FILING DATE: 2002-01-15
/ PRIOR APPLICATION NUMBER: 60/059263
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/059266
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/063120
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063121
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063486
/ PRIOR FILING DATE: 1997-10-21
/ PRIOR APPLICATION NUMBER: 60/063540
/ PRIOR FILING DATE: 1997-10-28
/ PRIOR APPLICATION NUMBER: 60/063544
/ PRIOR FILING DATE: 1997-10-28
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 612
/ SEQ ID NO 569
/ LENGTH: 2457
/ TYPE: DNA
/ ORGANISM: Homo Sapien
/ US-10-187-749-569

Query Match          2.1%; Score 30; DB 13; Length 2457;
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1361 TCTTCCTAAAAAAAAAAAAAAAAAAAA 1390
Db      2423 TCTTCCTAAAAAAAAAAAAAAAAAAAA 2452

RESULT 12
US-10-194-457-569
/ Sequence 569, Application US/10194457
/ Publication No. US20030153037A1
/ GENERAL INFORMATION:
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Chen, Jian
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Pan, James
/ APPLICANT: Smith, Victoria
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
/ FILE REFERENCE: P3430R1C296
/ CURRENT APPLICATION NUMBER: US/10/194,457
/ CURRENT FILING DATE: 2002-07-11
/ PRIOR APPLICATION NUMBER: 10/052586
/ PRIOR FILING DATE: 2002-01-15
/ PRIOR APPLICATION NUMBER: 60/059263
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/059266
/ PRIOR FILING DATE: 1997-09-18
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/063120
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063121
/ PRIOR FILING DATE: 1997-10-24
/ PRIOR APPLICATION NUMBER: 60/063486
/ PRIOR FILING DATE: 1997-10-21
```

```

; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; Prior Application data removed - See File Wrapper or PALM.
; SEQ ID NO 569
; LENGTH: 2457
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-194-457-569

Query Match
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 1390
DB 2423 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 2452

RESULT 13
US-10-184-642-569
; Sequence 569, Application US/10184642
; Publication No. US20030157635A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C194
; CURRENT APPLICATION NUMBER: US/10/184,642
; CURRENT FILING DATE: 2002-06-27
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 569
; LENGTH: 2457
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-642-569

Query Match
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 1390
DB 2423 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 2452

RESULT 14
US-10-196-747-569
; Sequence 569, Application US/10196747
; Publication No. US20030162250A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
US-10-196-747-569
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; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C346
; CURRENT APPLICATION NUMBER: US/10/196,747
; CURRENT FILING DATE: 2002-07-16
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 569
; LENGTH: 2457
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-196-747-569

Query Match
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 1390
DB 2423 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 2452

RESULT 15
US-10-173-689-569
; Sequence 569, Application US/10173689
; Publication No. US2003016104A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C10
; CURRENT APPLICATION NUMBER: US/10/173,689
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 569
; LENGTH: 2457
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-173-689-569

Query Match
Best Local Similarity 100.0%; Pred. No. 0.00021;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1361 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 1390
DB 2423 TCTTCCTTAAAAAAAAAAAAAAAAAAAA 2452

Search completed: December 13, 2003, 21:19:53
Job time : 385 secs
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